



August 12, 2008

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Environmental & Natural Resources Division,
DJ#90-5-2-1-06894
U.S. Department of Justice
P.O. Box 7611, Ben Franklin Station
Washington, District of Columbia 20044-7611

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Office of Enforcement & Compliance Assurance
U.S. Environmental Protection Agency
Ariel Rios Building, S. Rm. 119 [Mail 2242A]
1200 Pennsylvania Avenue, N.W.
Washington, District of Columbia 20460

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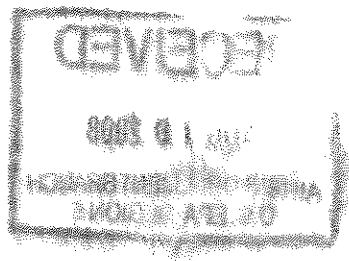
Certified Mail: 7000 0600 0026 3626 8017
Department Head
Environmental Department
State of Connecticut
Office of the Attorney General
55 Elm Street
Hartford, Connecticut 06106

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Bureau Chief, Air Bureau
State of Connecticut
Department of Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Gentlemen and Ladies:

Re: Submittal of Sixth Semiannual Progress Report Pursuant Paragraph 141 of the
Consent Decree, Entered in Civil Action No. C2-99-1181

Ohio Edison Company (OE) submits the following semi-annual progress report for the
period January 1, 2008 through June 30, 2008, as required by paragraph 141 of the CD:



Appendix (B)(I)(A) Installation of NO_x and SO₂ Equipment

Project	Construction Schedule	Date of Contract Execution	Major Component Delivery	Estimated Percentage Complete	Estimated Construction Completion	Date of Final Installation	Acceptance Test
SA 1-2, 4-7 Low-NO _x Burners				100 %		In-service prior to Consent Decree	
SA 1-2, 4, 6-7 Overfired Air				100 %		In-service prior to Consent Decree	
SA 3 Low-NO _x Burners and Overfired Air		N/A – FE General Contractor	All Equipment Received	100%		11/7/05	N/A
SA 1-5 Combustion Optimization	See attached Schedule	4/14/05	All Equipment Received	100%		11/2/05	N/A
SA 1 SNCR	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		6/16/06	N/A
SA 2 SNCR				100%		In-service prior to Consent Decree	
SA 3 SNCR	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		11/07/05	N/A
SA 4 SNCR	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		5/19/06	N/A
SA 5 SNCR	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		4/28/06	N/A
SA 6 SNCR		N/A – FE General Contractor	All Equipment Received	100%		6/3/05	N/A
SA 7 SNCR				100%		In-service prior to Consent Decree	
SA 6 SCR	See attached Schedule	January 2005	Catalyst 4 th Quarter 2008	65%	5/16/09	9/20/09	N/A
SA 7 SCR	See attached Schedule	January 2005	Catalyst 4 th Quarter 2009	36%	3/27/10	7/30/10	N/A
SA 1-4 SO ₂ Removal System	See attached Schedule	8/26/05	Absorber Rings: 1 st Quarter 2008	56%	11/12/09	7/30/10	9/1/10

Project	Construction Schedule	Date of Contract Execution	Major Component Delivery	Estimated Percentage Complete	Estimated Construction Completion	Date of Final Installation	Acceptance Test
SA 5 SO ₂ Removal System	See attached Schedule	8/26/05	Absorber Rings: 3 rd /4 th Quarter 2008	45%	12/31/09	9/30/10	11/30/10
SA 6 & 7 SO ₂ Removal System	See attached Schedule	8/26/05	Absorber Rings: 3 rd /4 th Quarter 2008	45%	12/31/09	9/30/10	11/30/10
MN 1 Scrubber Upgrades	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		12/3/05	6/1/06
MN 2 Scrubber Upgrades	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		11/8/06	7/1/07
MN 3 Scrubber Upgrades	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		11/10/07	2/7/08
EL 5 Low-NO _x Burners, Overfired Air				100%		In-service prior to Consent Decree	
EL 5 SNCR	See attached Schedule	N/A – FE General Contractor	All Equipment Received	100%		2/26/07	N/A
Burger 4 SNCR	See attached Schedule	N/A – FE General Contractor	Equipment Skid: 1 st Quarter 2008	86%	9/26/08	12/23/08	N/A
Burger 5 SNCR	See attached Schedule	N/A – FE General Contractor	Equipment Skid: 1 st Quarter 2008	82%	9/26/08	12/23/08	N/A

Appendix (B)(I)(B) 30-Day Rolling Average Emission Rates for NO_x and SO₂

CD Paragraph 56:

1. The Sammis Unit 1 NO_x 30-Day Rolling Average Emission Rate (lb/mmBtu) is attached for the period May 28, 2008 through June 30, 2008.

The Sammis Unit 2 NO_x 30-Day Rolling Average Emission Rate (lb/mmBtu) is attached for the period January 1, 2008 through June 30, 2008.

The Sammis Unit 3 NO_x 30-Day Rolling Average Emission Rate (lb/mmBtu) is attached for the period January 1, 2008 through June 30, 2008.

2. Sample calculations for Sammis Unit 1 are attached.

Sample calculations were previously submitted for Sammis Unit 2.

Sample calculations were previously submitted for Sammis Unit 3.

3. There were no deviations of the Sammis Unit 1 NO_x 30-Day Rolling Average Emission Rate during the period.

There were no deviations of the Sammis Unit 2 NO_x 30-Day Rolling Average Emission Rate during the period.

There were no deviations of the Sammis Unit 3 NO_x 30-Day Rolling Average Emission Rate during the period.

4. Sammis Units 1, 2, and 3 Startup and Shutdown.

Unit	Date and Time Fuel Combusted	Date and Time Synchronized	Date and Time Fire Extinguished	Fifth and Subsequent Cold Startup Period Within 30-Day Period
SA-1	Nothing to Report	Nothing to Report	Nothing to Report	
SA-2	Nothing to Report	Nothing to Report	Nothing to Report	
SA-3			5/25/2008 Hour 10	
SA-3	5/26/2008 Hour 5	5/26/2008 Hour 10	6/1/2008 Hour 21	
SA-3	6/5/2008 Hour 1	6/5/2008 Hour 12		

Appendix (B)(I)(C) PM Emission Rates

CD Paragraph 112: Executive summaries and results of particulate emission stack tests for Sammis Units 6 and 7 are attached to this report.

Appendix (B)(I)(D) Plant-Wide Annual Cap and Monthly Cap

Nothing to report.

Appendix (B)(I)(E) Additional Reductions

Nothing to report.

Appendix (B)(I)(F) Interim Reductions for NO_x and SO₂

Nothing to report.

Appendix (B)(I)(G) Surrender of Restricted SO₂ Allowances

Nothing to report.

Appendix (B)(I)(H) Generation of Super-Compliant Allowances

Nothing to report.

Appendix (B)(I)(I) NO_x System-Wide Annual Emission Rate

Nothing to report.

Appendix (B)(I)(J) Environmentally Beneficial Projects

1. Cash Contributions

Date of Payment	Recipient	Amount Paid (dollars)
2/23/2008	Treasurer, State of New Jersey	520,000
2/23/2008	New York State Energy Research and Development Authority	1,180,000
2/23/2008	Treasurer, State of Connecticut	300,000

2. Renewable Energy Development Projects

Date of Execution	Megawatts	Location	Commencement of Operation	Description
3/21/2006	16	Cambria County, PA	6/29/2007	Wind turbine purchase power agreement for 23-year term entered into by FES, an affiliate of OE (agreement previously submitted)

Appendix (B)(II) Deviation Reports

Nothing to report.

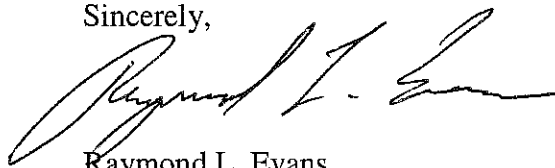
Appendix (B)(III) Ohio Edison Submissions

Nothing to Report.

Certification

"This information was prepared either by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my evaluation, or the direction and my inquiry of the person(s) who manage the system, or the persons(s) directly responsible for gathering the information, I hereby certify under penalty of law that, to the best of my knowledge and belief, this information is true, accurate, and complete. I understand that there are significant penalties for submitting false, inaccurate, or incomplete information to the United States."

Sincerely,

A handwritten signature in black ink, appearing to read "Raymond L. Evans", written in a cursive style.

Raymond L. Evans
Manager,
Environmental Controls and Monitoring

rlc/ksef
Attachments

bc w/att via e-mail: CEAnderson
JBabula
MTBeckham
RLBrubaker – Porter, Wright, Morris & Arthur LLP
KVCeceris
JSDoraski
EDElliott – Willkie Farr & Gallagher LLP
KSEngland
DJFuster
FALubich
RGMende
DWPinter
PJRobinson
RESliper
SMSmith
RFSprecker
DHUllom
BJWarnaka
DJWeber
JAZoppelt

bc w/o att via e-mail: VVBoley
KJDresner
MAFraley
AJamshidi
CDLasky
JGMellody
RPREffner
CMSheW
DVSteen
LLVespoli

Sammi's Cg

Samnis Unit 1 - Daily Sample Calculations

Equation F-6 is from 40CFR75 Appendix F.

$$E = K C_h F_c \frac{100}{\%CO_2}$$

$$3.3.1 K = 1.194 \times 10^3 \text{ (lb/dscf)/ppm}$$

NO_x
3.3.2 E = Pollutant emissions during unit operation, lb/mmBtu.

3.3.3 C_a = Hourly average pollutant concentration during unit operation, ppm.

Table 1-F and Fc Factors			
Fuel	F-Factor (dscf/mmBtu)	Fc Factor (scf CO ₂ /mmBtu)	
Coal (defined by ASTM D388-92)		10,100	1,970
Anthracite		9,780	1,840
Bituminous & Sub bituminous			

Date	Hour	Load MW	Online Minutes	NOx PPM	CO ₂ %	Excel	Hourly Data From CEMS	Daily Average Using Excel	Daily Average From ESC Daily Average Tool
						Calculated			
6/1/2008	0:00	114.7824	60	67.4482	9.789	0.148	0.148		
6/1/2008	1:00	104.7331	60	63.6686	9.605	0.142	0.143		
6/1/2008	2:00	103.8718	60	65.4034	9.591	0.147	0.146		
6/1/2008	3:00	108.0731	60	71.8588	9.566	0.161	0.161		
6/1/2008	4:00	113.1929	60	72.2363	9.584	0.162	0.162		
6/1/2008	5:00	107.4511	60	69.5205	9.536	0.157	0.157		
6/1/2008	6:00	105.9473	60	73.192	9.386	0.168	0.167		
6/1/2008	7:00	106.6604	60	73.0391	9.511	0.165	0.165		
6/1/2008	8:00	109.3838	60	73.6095	9.714	0.163	0.163		
6/1/2008	9:00	133.9327	60	90.4145	10.45	0.186	0.185		
6/1/2008	10:00	161.0634	60	101.353	11.14	0.196	0.196		
6/1/2008	11:00	152.9476	60	93.7441	10.68	0.189	0.188		
6/1/2008	12:00	157.1446	60	98.6834	10.9	0.195	0.195		
6/1/2008	13:00	164.8797	60	99.8806	10.98	0.196	0.195		
6/1/2008	14:00	150.5453	60	98.149	10.89	0.194	0.193		
6/1/2008	15:00	170.0582	60	106.294	11.19	0.204	0.204		
6/1/2008	16:00	142.4742	60	93.4797	10.8	0.186	0.186		
6/1/2008	17:00	145.599	60	92.8405	10.88	0.183	0.183		
6/1/2008	18:00	142.9488	60	89.8938	10.57	0.183	0.182		
6/1/2008	19:00	142.0494	60	90.7569	10.47	0.186	0.186		
6/1/2008	20:00	165.862	60	101.378	10.72	0.203	0.204		
6/1/2008	21:00	167.7003	60	99.2265	10.51	0.203	0.203		
6/1/2008	22:00	139.293	60	84.0032	10.4	0.174	0.174		
6/1/2008	23:00	109.1606	60	71.7064	9.311	0.166	0.166	0.177	0.177

6/2/2008	0:00	106.1984	60	72.9962	9.096	0.172	0.172
6/2/2008	1:00	113.0851	60	72.2634	9.367	0.166	0.165
6/2/2008	2:00	107.7722	60	70.2259	9.112	0.166	0.166
6/2/2008	3:00	107.1813	60	70.3181	9.021	0.168	0.168
6/2/2008	4:00	105.7809	60	68.9574	8.991	0.165	0.165
6/2/2008	5:00	105.3375	60	70.5793	8.859	0.171	0.171
6/2/2008	6:00	121.4829	60	75.7449	9.224	0.176	0.177
6/2/2008	7:00	181.5732	60	113.425	11.16	0.218	0.218
6/2/2008	8:00	189.4258	60	110.918	11.62	0.205	0.206
6/2/2008	9:00	189.3501	60	119.455	11.89	0.216	0.216
6/2/2008	10:00	190.1314	60	123.275	12.28	0.216	0.215
6/2/2008	11:00	190.1654	60	127.147	12.53	0.218	0.219
6/2/2008	12:00	190.6092	60	132.535	12.91	0.221	0.221
6/2/2008	13:00	190.7904	60	137.276	12.84	0.230	0.231
6/2/2008	14:00	191.2559	60	139.613	12.83	0.234	0.234
6/2/2008	15:00	189.7246	60	133.864	12.88	0.223	0.223
6/2/2008	16:00	182.0981	60	122.5	12.66	0.208	0.207
6/2/2008	17:00	180.4124	60	123.511	12.64	0.210	0.211
6/2/2008	18:00	173.3265	60	122.175	12.49	0.210	0.210
6/2/2008	19:00	167.1359	60	116.76	12.37	0.203	0.202
6/2/2008	20:00	170.4682	60	117.605	12.35	0.205	0.204
6/2/2008	21:00	151.6351	60	102.006	12.13	0.181	0.181
6/2/2008	22:00	126.7132	60	82.7123	11.53	0.154	0.155
6/2/2008	23:00	106.3622	60	66.3564	9.862	0.145	0.144
6/3/2008	0:00	107.2253	60	69.3461	9.461	0.158	0.157
6/3/2008	1:00	108.2754	60	71.5104	9.374	0.164	0.164
6/3/2008	2:00	132.6314	60	78.1546	10.03	0.167	0.168
6/3/2008	3:00	106.2822	60	71.7083	9.312	0.166	0.166
6/3/2008	4:00	106.3824	60	67.4778	9.216	0.157	0.158
6/3/2008	5:00	108.4847	60	65.3582	9.391	0.150	0.150
6/3/2008	6:00	106.8688	60	68.0513	9.288	0.157	0.157
6/3/2008	7:00	113.7414	60	68.6578	9.457	0.156	0.155
6/3/2008	8:00	144.4466	60	92.052	10.77	0.184	0.183
6/3/2008	9:00	161.7315	60	105.897	11.55	0.197	0.196
6/3/2008	10:00	144.1755	60	95.51	11.34	0.181	0.182
6/3/2008	11:00	147.9454	60	100.083	11.48	0.187	0.187
6/3/2008	12:00	162.9003	60	113.63	11.76	0.208	0.207
6/3/2008	13:00	170.6643	60	110.957	11.79	0.202	0.202
6/3/2008	14:00	170.1084	60	111.947	11.8	0.204	0.204
6/3/2008	15:00	163.3153	60	106.171	11.65	0.196	0.195
6/3/2008	16:00	164.0291	60	108.484	11.52	0.202	0.203
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6/3/2008	19:00	153.7865	60	97.8879	11.19	0.188	0.188
6/3/2008	20:00	168.1703	60	101.049	11.34	0.192	0.192
6/3/2008	21:00	156.7534	60	95.7143	11.08	0.186	0.185

0.195

0.195

6/3/2008	22:00	151.1884	60	88.6715	10.87	0.175	0.175		0.179	0.179
6/3/2008	23:00	106.7207	60	64.4842	9.44	0.147	0.148			
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6/4/2008	1:00	139.3335	60	80.0485	10.14	0.170	0.170			
6/4/2008	2:00	106.722	60	68.9804	9.238	0.160	0.161			
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6/4/2008	5:00	121.2084	60	73.4459	9.625	0.164	0.164			
6/4/2008	6:00	103.4031	60	69.5308	9.251	0.162	0.161			
6/4/2008	7:00	138.7697	60	87.0921	10.04	0.186	0.187			
6/4/2008	8:00	173.1063	60	114.485	11.21	0.219	0.220			
6/4/2008	9:00	189.0816	60	115.048	12.48	0.198	0.198			
6/4/2008	10:00	189.6512	60	117.938	12.54	0.202	0.203			
6/4/2008	11:00	191.0829	60	124.176	12.62	0.211	0.212			
6/4/2008	12:00	183.8524	60	122.012	12.6	0.208	0.208			
6/4/2008	13:00	180.3807	60	120.073	12.51	0.206	0.207			
6/4/2008	14:00	186.1864	60	126.378	12.68	0.214	0.214			
6/4/2008	15:00	156.8733	60	105.444	12.2	0.186	0.186			
6/4/2008	16:00	173.5674	60	123.182	12.44	0.213	0.214			
6/4/2008	17:00	179.5478	60	126.374	12.55	0.216	0.216			
6/4/2008	18:00	178.0158	60	124.973	12.56	0.214	0.213			
6/4/2008	19:00	179.309	60	126.624	12.61	0.216	0.216			
6/4/2008	20:00	180.3397	60	124.799	12.57	0.213	0.213			
6/4/2008	21:00	160.2303	60	109.221	12.25	0.192	0.191			
6/4/2008	22:00	152.5987	60	104.345	11.23	0.200	0.200		0.192	0.192
6/4/2008	23:00	104.583	60	69.0948	9.468	0.157	0.156			
6/5/2008	0:00	104.1707	60	71.567	9.059	0.170	0.169			
6/5/2008	1:00	106.7093	60	71.9327	9.138	0.169	0.170			
6/5/2008	2:00	108.3776	60	70.9266	9.122	0.167	0.167			
6/5/2008	3:00	115.3275	60	72.392	9.235	0.168	0.169			
6/5/2008	4:00	118.8166	60	70.3161	9.514	0.159	0.159			
6/5/2008	5:00	104.0742	60	63.0948	9.366	0.145	0.144			
6/5/2008	6:00	137.7789	60	82.017	10.16	0.173	0.173			
6/5/2008	7:00	163.9937	60	101.262	11.09	0.196	0.196			
6/5/2008	8:00	168.8409	60	104.42	11.7	0.192	0.192			
6/5/2008	9:00	176.7068	60	113.947	11.89	0.206	0.206			
6/5/2008	10:00	172.315	60	113.799	11.92	0.205	0.206			
6/5/2008	11:00	162.6716	60	103.239	11.79	0.188	0.188			
6/5/2008	12:00	177.7625	60	114.52	12.12	0.203	0.203			
6/5/2008	13:00	176.253	60	114.344	12.07	0.204	0.203			
6/5/2008	14:00	177.5455	60	123.545	12.07	0.220	0.219			
6/5/2008	15:00	172.046	60	113.79	12.02	0.203	0.204			
6/5/2008	16:00	173.4914	60	118.205	12.02	0.211	0.212			
6/5/2008	17:00	161.0083	60	110.117	11.78	0.201	0.201			
6/5/2008	18:00	157.5342	60	116.168	11.7	0.213	0.214			
6/5/2008	19:00	156.8032	60	103.233	11.68	0.190	0.190			

6/5/2008	20:00	179.0678	60	123.561	12.03	0.221	0.221	0.193	0.193	0.221
6/5/2008	21:00	179.227	60	123.56	12.08	0.220	0.220			0.220
6/5/2008	22:00	173.8741	60	121.314	11.95	0.218	0.218			0.217
6/5/2008	23:00	161.1919	60	103.421	11.78	0.189	0.189			0.188
6/6/2008	0:00	135.3638	60	85.2989	11.33	0.162	0.162			0.162
6/6/2008	1:00	106.4373	60	64.4114	10.49	0.132	0.132			0.132
6/6/2008	2:00	104.4259	60	65.5834	10.39	0.136	0.136			0.136
6/6/2008	3:00	121.3483	60	75.6243	10.83	0.150	0.150			0.150
6/6/2008	4:00	143.3066	60	91.9902	11.36	0.174	0.174			0.173
6/6/2008	5:00	148.489	60	95.5881	11.47	0.179	0.179			0.179
6/6/2008	6:00	177.4309	60	117.941	11.89	0.213	0.213			0.213
6/6/2008	7:00	191.5422	60	122.089	12.81	0.205	0.205			0.205
6/6/2008	8:00	193.7107	60	128.889	12.94	0.214	0.214			0.215
6/6/2008	9:00	192.5547	60	126.006	12.96	0.209	0.209			0.208
6/6/2008	10:00	193.0805	60	125.394	13	0.207	0.207			0.207
6/6/2008	11:00	193.4379	60	127.879	13.05	0.211	0.211			0.210
6/6/2008	12:00	193.7505	60	129.482	13.17	0.211	0.211			0.211
6/6/2008	13:00	194.0052	60	135.585	13.18	0.221	0.221			0.221
6/6/2008	14:00	194.2971	60	141.011	13.16	0.230	0.230			0.230
6/6/2008	15:00	192.8217	60	138.604	13.09	0.228	0.228			0.227
6/6/2008	16:00	192.9597	60	138.415	13.07	0.228	0.228			0.227
6/6/2008	17:00	189.1196	60	138.453	12.96	0.230	0.230			0.229
6/6/2008	18:00	170.8291	60	124.299	12.69	0.211	0.211			0.210
6/6/2008	19:00	159.23	60	115.067	12.5	0.198	0.198			0.198
6/6/2008	20:00	176.5029	60	127.171	12.78	0.214	0.214			0.214
6/6/2008	21:00	157.9504	60	114.457	12.24	0.201	0.201			0.202
6/6/2008	22:00	173.2001	60	121.935	12.46	0.210	0.210	0.199	0.199	0.210
6/6/2008	23:00	179.4659	60	127.627	12.55	0.219	0.219			0.218
6/7/2008	0:00	160.8687	60	111.8	12.25	0.196	0.196			0.195
6/7/2008	1:00	126.5488	60	81.2173	11.49	0.152	0.152			0.152
6/7/2008	2:00	103.9147	60	66.8446	11.1	0.129	0.129			0.129
6/7/2008	3:00	106.4169	60	67.4669	11.15	0.130	0.130			0.130
6/7/2008	4:00	110.1221	60	73.9344	10.28	0.155	0.155			0.154
6/7/2008	5:00	104.9343	60	74.3482	9.062	0.176	0.176			0.176
6/7/2008	6:00	134.8755	60	81.2292	9.755	0.179	0.179			0.178
6/7/2008	7:00	154.3006	60	96.2084	10.79	0.192	0.192			0.191
6/7/2008	8:00	170.8312	60	107.401	11.95	0.193	0.193			0.192
6/7/2008	9:00	169.6736	60	105.773	11.92	0.191	0.191			0.191
6/7/2008	10:00	170.9482	60	108.373	11.93	0.195	0.195			0.196
6/7/2008	11:00	178.029	60	120.797	11.99	0.217	0.217			0.216
6/7/2008	12:00	172.2458	60	109.635	11.96	0.197	0.197			0.196
6/7/2008	13:00	169.456	60	110.036	11.82	0.200	0.200			0.200
6/7/2008	14:00	178.7987	60	116.32	11.87	0.211	0.211			0.210
6/7/2008	15:00	178.454	60	121.732	11.78	0.222	0.222			0.222
6/7/2008	16:00	179.5095	60	117.027	11.87	0.212	0.212			0.211
6/7/2008	17:00	178.1816	60	119.361	11.78	0.218	0.218			0.218

6/7/2008	18:00	167.6851	60	110.527	11.7	0.203	0.203		
6/7/2008	19:00	157.6962	60	105.152	11.62	0.194	0.195		
6/7/2008	20:00	172.2681	60	117.66	11.93	0.212	0.213		
6/7/2008	21:00	174.2842	60	120.483	11.96	0.217	0.216		
6/7/2008	22:00	162.7301	60	109.23	11.69	0.201	0.201	0.191	
6/7/2008	23:00	172.6227	60	115.325	11.8	0.210	0.210		0.191
6/8/2008	0:00	148.1708	60	98.7735	11.34	0.187	0.188		
6/8/2008	1:00	135.5719	60	84.702	11.01	0.165	0.166		
6/8/2008	2:00	110.5733	60	85.9819	9.851	0.188	0.187		
6/8/2008	3:00	105.3719	60	86.4065	9.599	0.193	0.193		
6/8/2008	4:00	106.2521	60	77.4447	9.348	0.178	0.179		
6/8/2008	5:00	106.9423	60	72.8193	9.146	0.171	0.172		
6/8/2008	6:00	123.6901	60	79.0927	9.665	0.176	0.175		
6/8/2008	7:00	147.6967	60	100.445	10.65	0.203	0.202		
6/8/2008	8:00	175.2115	60	116.502	12.13	0.206	0.207		
6/8/2008	9:00	178.5034	60	115.583	12.29	0.202	0.202		
6/8/2008	10:00	180.5842	60	116.529	12.35	0.203	0.202		
6/8/2008	11:00	176.7364	60	117.864	12.39	0.204	0.204		
6/8/2008	12:00	180.312	60	111.575	12.45	0.193	0.192		
6/8/2008	13:00	185.9763	60	115.243	12.55	0.197	0.197		
6/8/2008	14:00	184.8814	60	116.82	12.52	0.201	0.201		
6/8/2008	15:00	192.4134	60	123.035	12.64	0.209	0.210		
6/8/2008	16:00	193.7511	60	124.641	12.64	0.212	0.213		
6/8/2008	17:00	191.0413	60	124.947	12.6	0.213	0.213		
6/8/2008	18:00	178.1108	60	117.792	12.38	0.204	0.204		
6/8/2008	19:00	167.5843	60	113.162	12.36	0.197	0.196		
6/8/2008	20:00	171.092	60	115.912	12.33	0.202	0.203		
6/8/2008	21:00	160.3238	60	106.205	12.19	0.187	0.187		
6/8/2008	22:00	165.3906	60	107.862	12.21	0.190	0.190	0.195	
6/8/2008	23:00	173.1393	60	114.574	12.23	0.201	0.202		0.195
6/9/2008	0:00	162.1348	60	105.584	12.13	0.187	0.188		
6/9/2008	1:00	160.3205	60	102.323	12.01	0.183	0.183		
6/9/2008	2:00	144.9585	60	71.5969	10.83	0.142	0.143		
6/9/2008	3:00	116.4946	60	74.0807	10.45	0.152	0.152		
6/9/2008	4:00	107.918	60	73.0475	9.798	0.160	0.160		
6/9/2008	5:00	133.6607	60	87.5634	10.51	0.179	0.179		
6/9/2008	6:00	141.4899	60	90.7763	11.32	0.172	0.173		
6/9/2008	7:00	160.4965	60	103.962	11.76	0.190	0.189		
6/9/2008	8:00	169.4928	60	104.21	11.82	0.189	0.190		
6/9/2008	9:00	181.507	60	114.957	11.94	0.207	0.208		
6/9/2008	10:00	178.9694	60	114.503	12.14	0.203	0.203		
6/9/2008	11:00	181.8071	60	119.613	12.22	0.210	0.211		
6/9/2008	12:00	173.0289	60	115.036	12.07	0.205	0.204		
6/9/2008	13:00	185.8227	60	124.071	12.06	0.221	0.220		
6/9/2008	14:00	189.3421	60	127.347	11.83	0.231	0.232		
6/9/2008	15:00	189.3698	60	129.474	11.89	0.234	0.234		

6/9/2008	16:00	189.9316	60	119.946	11.81	0.218	0.218
6/9/2008	17:00	190.8431	60	120.225	12.02	0.215	0.215
6/9/2008	18:00	190.1727	60	123.479	12.06	0.219	0.219
6/9/2008	19:00	175.5505	60	111.53	12.1	0.198	0.198
6/9/2008	20:00	152.9295	60	95.7943	11.8	0.174	0.175
6/9/2008	21:00	146.2288	60	89.0726	11.39	0.168	0.168
6/9/2008	22:00	132.4846	60	76.0699	10.65	0.154	0.153
6/9/2008	23:00	116.7331	60	64.9343	10.01	0.139	0.140
6/10/2008	0:00	119.876	60	65.7819	10.02	0.141	0.141
6/10/2008	1:00	103.3255	60	56.9698	9.621	0.127	0.128
6/10/2008	2:00	102.7688	60	59.0825	9.53	0.133	0.134
6/10/2008	3:00	107.0838	60	63.2061	9.49	0.143	0.143
6/10/2008	4:00	114.8479	60	66.1604	9.435	0.151	0.151
6/10/2008	5:00	116.503	60	75.1372	9.096	0.178	0.177
6/10/2008	6:00	138.3038	60	80.9081	10.57	0.165	0.164
6/10/2008	7:00	145.7198	60	87.094	10.89	0.172	0.172
6/10/2008	8:00	148.502	60	90.0273	10.98	0.176	0.176
6/10/2008	9:00	159.5467	60	97.5308	11.2	0.187	0.187
6/10/2008	10:00	158.531	60	92.5547	11.2	0.178	0.178
6/10/2008	11:00	163.4139	60	102.555	11.22	0.196	0.197
6/10/2008	12:00	166.6056	60	108.208	11.37	0.205	0.204
6/10/2008	13:00	161.6343	60	102.866	11.29	0.196	0.196
6/10/2008	14:00	136.6707	60	84.2345	11.08	0.163	0.163
6/10/2008	15:00	155.6496	60	102.305	11.79	0.186	0.186
6/10/2008	16:00	165.4812	60	112.904	12.07	0.201	0.201
6/10/2008	17:00	137.3395	60	90.6053	11.42	0.171	0.171
6/10/2008	18:00	139.536	60	94.7348	11.27	0.181	0.180
6/10/2008	19:00	135.0517	60	91.7102	11.07	0.178	0.178
6/10/2008	20:00	139.1799	60	95.2141	11.1	0.184	0.184
6/10/2008	21:00	140.49	60	93.5065	10.93	0.184	0.184
6/10/2008	22:00	107.2889	60	63.7056	10.16	0.135	0.134
6/10/2008	23:00	117.1083	60	71.2707	10.14	0.151	0.152
6/11/2008	0:00	105.3996	60	62.6931	10.04	0.134	0.135
6/11/2008	1:00	104.1102	60	66.0715	10.04	0.141	0.142
6/11/2008	2:00	106.0352	60	67.1659	9.908	0.146	0.146
6/11/2008	3:00	103.9079	60	64.0555	9.883	0.139	0.139
6/11/2008	4:00	105.6214	60	64.2223	9.812	0.141	0.141
6/11/2008	5:00	105.6265	60	63.9773	9.872	0.139	0.139
6/11/2008	6:00	106.8154	60	64.7889	9.638	0.144	0.145
6/11/2008	7:00	151.82	60	99.9572	10.44	0.206	0.207
6/11/2008	8:00	188.9062	60	135.806	11.8	0.247	0.247
6/11/2008	9:00	192.4759	60	137.929	12.06	0.246	0.245
6/11/2008	10:00	193.0459	60	134.36	12.22	0.236	0.237
6/11/2008	11:00	191.2325	60	125.556	12.3	0.219	0.220
6/11/2008	12:00	191.8834	60	125.991	12.28	0.221	0.220
6/11/2008	13:00	192.3612	60	134.928	12.78	0.227	0.227

0.190

0.190

0.170

0.170

6/11/2008	14:00	192.2085	60	136.312	12.8	0.229	0.229	
6/11/2008	15:00	189.3762	60	130.035	12.7	0.220	0.220	
6/11/2008	16:00	171.629	60	119.81	12.45	0.207	0.206	
6/11/2008	17:00	156.2399	60	112.834	12.29	0.197	0.197	
6/11/2008	18:00	178.2473	60	125.635	12.62	0.214	0.214	
6/11/2008	19:00	154.9717	60	105.616	12.2	0.186	0.186	
6/11/2008	20:00	166.2786	60	117.232	12.3	0.205	0.205	
6/11/2008	21:00	162.7439	60	111.356	12.13	0.197	0.198	
6/11/2008	22:00	160.3042	60	105.283	11.85	0.191	0.190	0.191
6/11/2008	23:00	131.238	60	76.046	10.49	0.156	0.156	
6/12/2008	0:00	106.4379	60	63.5905	9.639	0.142	0.142	
6/12/2008	1:00	108.647	60	66.03	9.539	0.149	0.149	
6/12/2008	2:00	104.9023	60	62.3527	9.441	0.142	0.143	
6/12/2008	3:00	108.898	60	65.7669	9.451	0.150	0.149	
6/12/2008	4:00	116.3704	60	67.6533	9.543	0.152	0.153	
6/12/2008	5:00	105.1822	60	67.6269	9.393	0.155	0.155	
6/12/2008	6:00	111.3306	60	67.9989	9.555	0.153	0.152	
6/12/2008	7:00	143.2739	60	81.8205	10.3	0.171	0.171	
6/12/2008	8:00	175.9539	60	110.743	10.97	0.217	0.216	
6/12/2008	9:00	178.4333	60	116.853	11.43	0.220	0.220	
6/12/2008	10:00	185.1922	60	115.981	11.79	0.211	0.211	
6/12/2008	11:00	188.8708	60	121.858	11.98	0.219	0.218	
6/12/2008	12:00	189.5881	60	129.544	12.29	0.227	0.226	
6/12/2008	13:00	189.5795	60	133.453	12.61	0.227	0.228	
6/12/2008	14:00	189.5516	60	131.982	12.61	0.225	0.225	
6/12/2008	15:00	189.4486	60	133.257	12.58	0.228	0.227	
6/12/2008	16:00	189.8894	60	134.147	12.58	0.229	0.229	
6/12/2008	17:00	190.8425	60	134.128	12.63	0.228	0.229	
6/12/2008	18:00	190.7084	60	134.967	12.6	0.230	0.230	
6/12/2008	19:00	178.2247	60	127.865	12.27	0.224	0.224	
6/12/2008	20:00	179.1552	60	125.814	12.47	0.217	0.216	
6/12/2008	21:00	161.4161	60	108.856	12.2	0.192	0.192	
6/12/2008	22:00	173.7617	60	119.267	12.34	0.208	0.209	
6/12/2008	23:00	165.7738	60	117.221	12.19	0.207	0.207	0.197
6/13/2008	0:00	165.0349	60	115.671	12.08	0.206	0.206	
6/13/2008	1:00	147.5422	60	99.6527	11.57	0.185	0.185	
6/13/2008	2:00	124.3685	60	78.599	11.04	0.153	0.154	
6/13/2008	3:00	131.3939	60	85.9264	11.22	0.165	0.165	
6/13/2008	4:00	113.1449	60	73.3343	10.66	0.148	0.147	
6/13/2008	5:00	135.6331	60	92.6996	11.34	0.176	0.176	
6/13/2008	6:00	167.5543	60	107.525	10.9	0.212	0.212	
6/13/2008	7:00	151.7657	60	97.1694	10.18	0.205	0.205	
6/13/2008	8:00	167.0321	60	108.199	10.34	0.225	0.226	
6/13/2008	9:00	177.2334	60	109.226	10.54	0.223	0.224	
6/13/2008	10:00	173.4672	60	105.869	10.56	0.215	0.215	
6/13/2008	11:00	169.429	60	111.486	10.49	0.228	0.228	

6/13/2008	12:00	173.8397	60	113.282	10.65	0.229	0.228
6/13/2008	13:00	179.8316	60	119.564	10.72	0.240	0.240
6/13/2008	14:00	168.0835	60	113.249	10.57	0.230	0.230
6/13/2008	15:00	148.7253	60	106.088	10.23	0.223	0.224
6/13/2008	16:00	157.7218	60	108.126	10.43	0.223	0.223
6/13/2008	17:00	174.9901	60	112.802	10.66	0.227	0.227
6/13/2008	18:00	176.6497	60	110.18	10.66	0.222	0.221
6/13/2008	19:00	175.1351	60	111.873	10.66	0.226	0.225
6/13/2008	20:00	175.4747	60	112.792	10.71	0.226	0.227
6/13/2008	21:00	177.978	60	107.698	10.63	0.218	0.218
6/13/2008	22:00	165.6076	60	100.842	10.44	0.208	0.208
6/13/2008	23:00	140.8327	60	86.6686	9.942	0.187	0.188
6/14/2008	0:00	122.542	60	74.6292	9.45	0.170	0.169
6/14/2008	1:00	107.4666	60	67.6682	8.961	0.162	0.162
6/14/2008	2:00	117.926	60	76.4046	9.088	0.181	0.180
6/14/2008	3:00	119.5292	60	81.0567	9.142	0.191	0.192
6/14/2008	4:00	117.6523	60	76.1771	9.045	0.181	0.182
6/14/2008	5:00	117.2238	60	75.1653	9.047	0.179	0.180
6/14/2008	6:00	136.0399	60	91.9591	9.906	0.200	0.200
6/14/2008	7:00	142.0199	60	95.6862	10.51	0.196	0.196
6/14/2008	8:00	141.8151	60	96.0546	10.46	0.197	0.197
6/14/2008	9:00	159.488	60	103.272	10.74	0.207	0.208
6/14/2008	10:00	179.4919	60	114.409	10.94	0.225	0.226
6/14/2008	11:00	179.4071	60	115.415	10.93	0.227	0.228
6/14/2008	12:00	179.6295	60	117.455	10.96	0.230	0.230
6/14/2008	13:00	178.6992	60	118.729	11.15	0.229	0.228
6/14/2008	14:00	175.7946	60	114.831	11.06	0.223	0.222
6/14/2008	15:00	179.2984	60	112.953	11.03	0.220	0.221
6/14/2008	16:00	177.3801	60	115.011	11.08	0.223	0.223
6/14/2008	17:00	179.5982	60	114.241	11.11	0.221	0.221
6/14/2008	18:00	173.6358	60	110.845	10.93	0.218	0.219
6/14/2008	19:00	146.8551	60	95.4979	10.37	0.198	0.197
6/14/2008	20:00	145.0318	60	96.7189	10.45	0.199	0.198
6/14/2008	21:00	151.947	60	100.008	10.65	0.202	0.201
6/14/2008	22:00	129.7226	60	87.8085	10.46	0.180	0.180
6/14/2008	23:00	141.4246	60	91.9168	10.67	0.185	0.185
6/15/2008	0:00	135.191	60	84.5182	10.09	0.180	0.180
6/15/2008	1:00	106.242	60	65.8322	9.322	0.152	0.152
6/15/2008	2:00	106.6528	60	70.3358	8.446	0.179	0.180
6/15/2008	3:00	86.6034,	60	74.8433	7.947	0.202	0.204
6/15/2008	4:00	102.9568	60	63.319	8.803	0.155	0.155
6/15/2008	5:00	108.4112	60	64.8279	8.956	0.156	0.155
6/15/2008	6:00	120.0878	60	77.0109	9.25	0.179	0.178
6/15/2008	7:00	121.0183	60	74.2862	9.038	0.177	0.177
6/15/2008	8:00	109.896	60	65.8889	8.843	0.160	0.161
6/15/2008	9:00	145.3201	60	99.7963	10.12	0.212	0.212

0.208

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6/15/2008	10:00	158.7287	60	106.963	10.92	0.211	0.211		
6/15/2008	11:00	156.1991	60	109.242	11.03	0.213	0.213		
6/15/2008	12:00	158.5282	60	113.02	11.18	0.217	0.217		
6/15/2008	13:00	174.9854	60	125.46	11.5	0.234	0.235		
6/15/2008	14:00	179.6799	60	125.504	11.76	0.229	0.229		
6/15/2008	15:00	178.7026	60	126.872	11.83	0.230	0.231		
6/15/2008	16:00	160.1645	60	117.25	11.62	0.217	0.217		
6/15/2008	17:00	159.0938	60	117.036	11.59	0.217	0.217		
6/15/2008	18:00	164.2223	60	119.003	11.46	0.223	0.222		
6/15/2008	19:00	168.7911	60	114.329	11.25	0.218	0.217		
6/15/2008	20:00	178.1059	60	119.24	11.19	0.229	0.229		
6/15/2008	21:00	153.6849	60	114.677	10.6	0.233	0.233		
6/15/2008	22:00	129.456	60	106.593	10.3	0.222	0.222	0.203	0.203
6/15/2008	23:00	121.2822	60	103.084	10.07	0.220	0.219		
6/16/2008	0:00	114.5977	60	103.572	9.957	0.224	0.223		
6/16/2008	1:00	105.5291	60	105.069	9.579	0.236	0.235		
6/16/2008	2:00	105.6606	60	105.868	9.531	0.239	0.240		
6/16/2008	3:00	109.204	60	102.593	9.519	0.232	0.232		
6/16/2008	4:00	112.0808	60	100.556	9.623	0.225	0.225		
6/16/2008	5:00	115.8798	60	103.026	9.717	0.228	0.228		
6/16/2008	6:00	111.8118	60	95.046	9.548	0.214	0.215		
6/16/2008	7:00	131.097	60	94.7299	10.18	0.200	0.200		
6/16/2008	8:00	160.9569	60	109.595	10.92	0.216	0.216		
6/16/2008	9:00	169.0424	60	113.267	10.95	0.222	0.221		
6/16/2008	10:00	179.1676	60	120.132	11.12	0.232	0.233		
6/16/2008	11:00	179.8146	60	123.65	11.15	0.238	0.237		
6/16/2008	12:00	179.2097	60	122.124	11.28	0.233	0.232		
6/16/2008	13:00	178.5779	60	121.04	11.24	0.231	0.232		
6/16/2008	14:00	171.8684	60	121.247	11.14	0.234	0.235		
6/16/2008	15:00	178.4991	60	120.124	11.32	0.228	0.228		
6/16/2008	16:00	170.7761	60	115.002	11.08	0.223	0.223		
6/16/2008	17:00	149.6149	60	110.593	10.49	0.227	0.226		
6/16/2008	18:00	145.8147	60	109.479	10.47	0.225	0.224		
6/16/2008	19:00	144.0855	60	107.592	10.45	0.221	0.220		
6/16/2008	20:00	148.5609	60	109.142	10.53	0.223	0.223		
6/16/2008	21:00	145.6703	60	106.679	10.37	0.221	0.221		
6/16/2008	22:00	128.2022	60	100.578	10.12	0.214	0.214	0.224	0.224
6/16/2008	23:00	111.1202	60	88.8919	9.658	0.198	0.197		
6/17/2008	0:00	102.9631	60	90.3507	9.151	0.212	0.211		
6/17/2008	1:00	100.2887	60	92.5927	8.977	0.222	0.221		
6/17/2008	2:00	99.6170.	60	89.9169	8.946	0.216	0.217		
6/17/2008	3:00	99.6883.	60	89.9247	8.89	0.217	0.217		
6/17/2008	4:00	88.6965.	60	64.8785	8.54	0.163	0.164		
6/17/2008	5:00	91.8389.	60	65.4272	8.526	0.165	0.165		
6/17/2008	6:00	101.4901	60	69.7674	8.933	0.168	0.169		
6/17/2008	7:00	116.8872	60	96.2046	9.844	0.210	0.211		

6/17/2008	8:00	148.3019	60	120.551	10.44	0.248	0.249
6/17/2008	9:00	146.3818	60	105.854	10.95	0.208	0.207
6/17/2008	10:00	163.1646	60	109.634	11.18	0.211	0.210
6/17/2008	11:00	169.9267	60	112.124	11.26	0.214	0.213
6/17/2008	12:00	158.663	60	112.904	11.49	0.211	0.211
6/17/2008	13:00	176.0763	60	123.059	11.79	0.224	0.224
6/17/2008	14:00	159.889	60	116.638	11.74	0.214	0.214
6/17/2008	15:00	150.461	60	107.558	11.69	0.198	0.198
6/17/2008	16:00	149.0347	60	102.572	11.5	0.192	0.192
6/17/2008	17:00	145.5898	60	103.64	11.22	0.199	0.199
6/17/2008	18:00	138.7862	60	90.3726	10.96	0.177	0.177
6/17/2008	19:00	124.8725	60	74.8014	10.38	0.155	0.155
6/17/2008	20:00	127.3582	60	84.0443	10.12	0.178	0.179
6/17/2008	21:00	126.3643	60	90.6231	10.03	0.194	0.195
6/17/2008	22:00	112.4971	60	84.7987	9.751	0.187	0.186
6/17/2008	23:00	112.0621	60	86.5342	9.666	0.192	0.192
6/18/2008	0:00	104.9	60	86.814	9.746	0.191	0.192
6/18/2008	1:00	100.7151	60	89.3784	10.05	0.191	0.190
6/18/2008	2:00	98.6238,	60	91.2638	10.01	0.196	0.196
6/18/2008	3:00	99.5049,	60	92.1072	9.933	0.199	0.200
6/18/2008	4:00	98.7298,	60	91.6303	9.966	0.198	0.197
6/18/2008	5:00	101.0485	60	90.815	10.49	0.186	0.186
6/18/2008	6:00	113.126	60	91.1454	10.69	0.183	0.183
6/18/2008	7:00	119.1728	60	92.7484	10.78	0.185	0.185
6/18/2008	8:00	124.712	60	100.404	10.94	0.197	0.198
6/18/2008	9:00	141.0398	60	110.643	10.66	0.223	0.222
6/18/2008	10:00	144.6004	60	120.905	11.26	0.231	0.230
6/18/2008	11:00	163.1787	60	113.99	11.5	0.213	0.213
6/18/2008	12:00	163.7376	60	111.109	11.29	0.212	0.211
6/18/2008	13:00	164.1393	60	112.037	11.31	0.213	0.213
6/18/2008	14:00	163.7356	60	105.606	10.99	0.207	0.206
6/18/2008	15:00	158.8109	60	99.2864	10.78	0.198	0.198
6/18/2008	16:00	146.3385	60	95.8447	10.51	0.196	0.196
6/18/2008	17:00	146.1832	60	97.709	10.47	0.201	0.200
6/18/2008	18:00	107.5402	60	66.3787	9.604	0.149	0.149
6/18/2008	19:00	133.8914	60	91.3457	10.23	0.192	0.192
6/18/2008	20:00	144.3392	60	97.9492	10.47	0.201	0.200
6/18/2008	21:00	139.2702	60	103.239	10.45	0.212	0.211
6/18/2008	22:00	127.8177	60	102.079	10.35	0.212	0.211
6/18/2008	23:00	107.8042	60	89.0682	10.37	0.185	0.184
6/19/2008	0:00	104.996	60	86.5207	10.12	0.184	0.184
6/19/2008	1:00	105.9283	60	76.3882	10.1	0.163	0.163
6/19/2008	2:00	105.8648	60	79.9807	9.912	0.173	0.174
6/19/2008	3:00	107.2358	60	74.8825	10.25	0.157	0.156
6/19/2008	4:00	120.5997	60	64.4491	10.53	0.132	0.132
6/19/2008	5:00	107.4976	60	56.7371	10.21	0.119	0.120

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6/19/2008	6:00	130.0523	60	70.8684	10.35	0.147	0.147	
6/19/2008	7:00	110.3744	60	83.229	8.944	0.200	0.201	
6/19/2008	8:00	148.9322	60	104.515	10.88	0.206	0.206	
6/19/2008	9:00	172.6935	60	113.261	11.12	0.219	0.219	
6/19/2008	10:00	176.5214	60	111.274	11.57	0.207	0.206	
6/19/2008	11:00	176.1257	60	113.302	11.66	0.209	0.208	
6/19/2008	12:00	174.1801	60	118.219	11.65	0.218	0.217	
6/19/2008	13:00	179.6172	60	122.968	11.79	0.224	0.224	
6/19/2008	14:00	180.0814	60	117.679	11.52	0.220	0.220	
6/19/2008	15:00	181.4102	60	121.711	11.51	0.227	0.227	
6/19/2008	16:00	166.5098	60	111.018	11.66	0.205	0.204	
6/19/2008	17:00	171.2338	60	110.925	11.89	0.201	0.200	
6/19/2008	18:00	161.6014	60	105.518	11.78	0.193	0.192	
6/19/2008	19:00	165.8319	60	110.913	11.74	0.203	0.204	
6/19/2008	20:00	165.1201	60	107.983	11.62	0.200	0.200	
6/19/2008	21:00	156.0658	60	96.266	11	0.188	0.188	
6/19/2008	22:00	136.3535	60	93.3416	10.71	0.187	0.187	0.190
6/19/2008	23:00	128.3355	60	91.0481	10.54	0.186	0.186	
6/20/2008	0:00	128.8322	60	92.347	10.19	0.195	0.195	
6/20/2008	1:00	126.2206	60	88.4905	10.19	0.187	0.187	
6/20/2008	2:00	129.7767	60	83.3861	10.2	0.176	0.176	
6/20/2008	3:00	113.2465	60	63.0078	9.851	0.137	0.137	
6/20/2008	4:00	99.9539	60	57.789	9.078	0.137	0.137	
6/20/2008	5:00	107.3675	60	63.1139	9.116	0.149	0.149	
6/20/2008	6:00	115.0359	60	67.2211	9.255	0.156	0.155	
6/20/2008	7:00	139.9508	60	79.902	9.757	0.176	0.175	
6/20/2008	8:00	147.9922	60	94.4131	10.36	0.196	0.195	
6/20/2008	9:00	154.2293	60	98.002	10.64	0.198	0.199	
6/20/2008	10:00	167.0421	60	104.346	10.91	0.206	0.206	
6/20/2008	11:00	170.5623	60	111.168	11	0.217	0.217	
6/20/2008	12:00	174.9012	60	116.083	11.26	0.222	0.221	
6/20/2008	13:00	174.0695	60	121.649	11.22	0.233	0.233	
6/20/2008	14:00	174.3187	60	112.561	11.24	0.215	0.216	
6/20/2008	15:00	174.6024	60	114.615	11.24	0.219	0.220	
6/20/2008	16:00	173.7421	60	116.208	11.2	0.223	0.223	
6/20/2008	17:00	155.3711	60	96.6587	11.07	0.188	0.187	
6/20/2008	18:00	161.0627	60	102.917	11.02	0.201	0.201	
6/20/2008	19:00	138.8492	60	90.5364	11.2	0.174	0.174	
6/20/2008	20:00	159.9651	60	105.138	11.59	0.195	0.195	
6/20/2008	21:00	156.5479	60	99.6747	11.47	0.187	0.186	
6/20/2008	22:00	125.8855	60	78.2237	10.49	0.160	0.160	0.187
6/20/2008	23:00	108.1956	60	60.6322	9.45	0.138	0.137	0.187
6/21/2008	0:00	106.8352	60	62.1045	9.28	0.144	0.144	
6/21/2008	1:00	106.1439	60	61.6756	9.16	0.145	0.144	
6/21/2008	2:00	107.1308	60	60.13	9.085	0.142	0.142	
6/21/2008	3:00	104.6539	60	60.6866	9.406	0.139	0.139	

6/21/2008	4:00	105.5475	60	61.8168	9.349	0.142	0.143
6/21/2008	5:00	108.1681	60	62.5277	9.505	0.141	0.141
6/21/2008	6:00	108.1431	60	63.1978	9.468	0.143	0.143
6/21/2008	7:00	105.2354	60	61.7966	9.463	0.140	0.140
6/21/2008	8:00	113.2503	60	66.6801	9.749	0.147	0.148
6/21/2008	9:00	141.2811	60	81.3959	10.65	0.164	0.164
6/21/2008	10:00	167.8685	60	115.586	11.46	0.217	0.216
6/21/2008	11:00	178.8167	60	115.014	12	0.206	0.206
6/21/2008	12:00	151.2913	60	95.9836	11.59	0.178	0.178
6/21/2008	13:00	155.2305	60	102.641	11.63	0.190	0.190
6/21/2008	14:00	160.2934	60	102.562	11.64	0.189	0.190
6/21/2008	15:00	163.3076	60	106.022	11.65	0.196	0.195
6/21/2008	16:00	176.0642	60	115.827	11.86	0.210	0.209
6/21/2008	17:00	150.9268	60	98.223	11.56	0.183	0.182
6/21/2008	18:00	140.8331	60	94.2108	11.28	0.180	0.179
6/21/2008	19:00	141.3715	60	93.7722	11.27	0.179	0.178
6/21/2008	20:00	142.1518	60	89.6268	11.05	0.174	0.174
6/21/2008	21:00	141.6921	60	90.6159	10.9	0.179	0.179
6/21/2008	22:00	111.0775	60	67.9102	9.954	0.147	0.146
6/21/2008	23:00	110.8466	60	70.4334	9.628	0.157	0.158
6/22/2008	0:00	105.808	60	67.9312	9.486	0.154	0.154
6/22/2008	1:00	106.3954	60	69.4846	9.555	0.156	0.156
6/22/2008	2:00	105.002	60	68.4506	9.541	0.154	0.155
6/22/2008	3:00	99.6118,	60	72.319	9.433	0.165	0.165
6/22/2008	4:00	89.5306,	60	87.465	9.28	0.203	0.202
6/22/2008	5:00	76.8682,	60	90.1776	8.596	0.225	0.225
6/22/2008	6:00	74.6453,	60	89.0275	8.625	0.222	0.222
6/22/2008	7:00	79.1577,	60	93.3304	8.975	0.223	0.223
6/22/2008	8:00	102.8164	60	72.404	9.445	0.165	0.166
6/22/2008	9:00	114.63	60	73.4098	10.09	0.156	0.156
6/22/2008	10:00	157.1373	60	98.5142	11.16	0.190	0.189
6/22/2008	11:00	160.1757	60	101.496	11.38	0.192	0.191
6/22/2008	12:00	132.794	60	82.4185	11.03	0.161	0.161
6/22/2008	13:00	126.9842	60	73.563	10.88	0.145	0.145
6/22/2008	14:00	128.1049	60	76.0724	10.8	0.151	0.151
6/22/2008	15:00	111.5903	60	67.6896	10.48	0.139	0.139
6/22/2008	16:00	106.6304	60	66.7655	10.39	0.138	0.138
6/22/2008	17:00	105.9079	60	69.326	10.19	0.146	0.146
6/22/2008	18:00	124.5782	60	85.0121	10.55	0.173	0.172
6/22/2008	19:00	143.4701	60	101.254	10.95	0.199	0.198
6/22/2008	20:00	137.5817	60	95.4377	10.83	0.189	0.190
6/22/2008	21:00	139.9096	60	96.0541	10.77	0.192	0.191
6/22/2008	22:00	125.6881	60	72.106	10.54	0.147	0.148
6/22/2008	23:00	110.2972	60	70.0117	9.935	0.151	0.152
6/23/2008	0:00	105.1408	60	70.486	9.897	0.153	0.153
6/23/2008	1:00	102.509	60	67.6677	9.789	0.149	0.149

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6/23/2008	2:00	78.1991,	60	74.6032	8.737	0.184	0.184		
6/23/2008	3:00	67.7133,	60	72.3604	8.043	0.193	0.195		
6/23/2008	4:00	73.6225,	60	74.6188	8.403	0.191	0.191		
6/23/2008	5:00	79.7319,	60	72.302	8.697	0.179	0.179		
6/23/2008	6:00	118.9166	60	76.0735	9.865	0.166	0.165		
6/23/2008	7:00	146.0354	60	94.5952	10.74	0.189	0.190		
6/23/2008	8:00	150.7402	60	98.3817	11	0.192	0.192		
6/23/2008	9:00	173.4829	60	113.93	11.39	0.215	0.215		
6/23/2008	10:00	178.756	60	110.569	11.73	0.203	0.203		
6/23/2008	11:00	176.6733	60	109.335	11.85	0.198	0.197		
6/23/2008	12:00	179.239	60	112.935	11.99	0.202	0.202		
6/23/2008	13:00	179.1495	60	113.346	12	0.203	0.203		
6/23/2008	14:00	177.3377	60	114.967	11.94	0.207	0.208		
6/23/2008	15:00	177.8248	60	116.866	11.87	0.212	0.211		
6/23/2008	16:00	146.5457	60	92.1631	11.4	0.174	0.174		
6/23/2008	17:00	152.08	60	96.6812	11.42	0.182	0.182		
6/23/2008	18:00	140.6209	60	91.7361	11.09	0.178	0.178		
6/23/2008	19:00	144.2751	60	95.4044	11.34	0.181	0.181		
6/23/2008	20:00	148.3804	60	98.165	11.37	0.186	0.185		
6/23/2008	21:00	149.4578	60	99.929	11.21	0.192	0.192		
6/23/2008	22:00	128.5926	60	77.4873	11.03	0.151	0.151	0.185	
6/23/2008	23:00	112.4361	60	71.4128	10.31	0.149	0.149		0.185
6/24/2008	0:00	105.2436	60	70.2614	10.03	0.151	0.151		
6/24/2008	1:00	106.6304	60	70.5195	9.992	0.152	0.152		
6/24/2008	2:00	104.2695	60	70.6474	9.959	0.152	0.152		
6/24/2008	3:00	104.5292	60	71.0623	9.975	0.153	0.153		
6/24/2008	4:00	106.3885	60	69.8789	10.05	0.149	0.149		
6/24/2008	5:00	109.0722	60	70.7012	9.928	0.153	0.154		
6/24/2008	6:00	110.11	60	72.0387	9.78	0.158	0.158		
6/24/2008	7:00	136.5535	60	86.5093	10.62	0.175	0.175		
6/24/2008	8:00	148.4753	60	93.9183	11.15	0.181	0.180		
6/24/2008	9:00	148.6477	60	99.1191	11.15	0.191	0.190		
6/24/2008	10:00	157.8246	60	111.558	11.4	0.210	0.210		
6/24/2008	11:00	178.6658	60	123.469	11.86	0.224	0.223		
6/24/2008	12:00	178.146	60	120.714	11.95	0.217	0.216		
6/24/2008	13:00	172.5319	60	112.434	11.78	0.205	0.205		
6/24/2008	14:00	179.7587	60	121.648	11.93	0.219	0.220		
6/24/2008	15:00	177.053	60	113.105	11.9	0.204	0.204		
6/24/2008	16:00	179.3119	60	113.668	11.94	0.205	0.205		
6/24/2008	17:00	176.4909	60	113.399	11.86	0.205	0.205		
6/24/2008	18:00	160.3617	60	105.014	11.58	0.195	0.195		
6/24/2008	19:00	155.3006	60	104.483	11.5	0.195	0.195		
6/24/2008	20:00	169.161	60	112.89	11.65	0.208	0.207		
6/24/2008	21:00	152.2634	60	99.3035	11.33	0.188	0.189		
6/24/2008	22:00	124.1381	60	76.661	10.85	0.152	0.151	0.182	
6/24/2008	23:00	106.303	60	65.3521	10.13	0.139	0.139	0.182	0.182

6/25/2008	0:00	107.3992	60	70.9804	9.793	0.156	0.156
6/25/2008	1:00	105.6766	60	72.7685	9.562	0.163	0.163
6/25/2008	2:00	103.4352	60	73.5801	9.514	0.166	0.166
6/25/2008	3:00	106.6353	60	74.2205	9.566	0.167	0.166
6/25/2008	4:00	106.363	60	74.2104	9.571	0.167	0.166
6/25/2008	5:00	110.4136	60	72.3797	9.672	0.161	0.160
6/25/2008	6:00	106.7445	60	66.483	9.966	0.143	0.143
6/25/2008	7:00	146.125	60	94.1416	11.03	0.183	0.184
6/25/2008	8:00	151.1851	60	98.3432	11.4	0.185	0.185
6/25/2008	9:00	150.0131	60	100.558	11.47	0.188	0.188
6/25/2008	10:00	150.7781	60	98.3044	11.58	0.182	0.182
6/25/2008	11:00	153.9496	60	103.027	11.55	0.192	0.191
6/25/2008	12:00	176.1129	60	112.08	11.95	0.202	0.201
6/25/2008	13:00	180.3429	60	113.493	12.12	0.201	0.202
6/25/2008	14:00	167.2485	60	101.621	11.77	0.186	0.185
6/25/2008	15:00	169.6257	60	108.16	11.85	0.196	0.195
6/25/2008	16:00	179.6223	60	112.584	11.97	0.202	0.202
6/25/2008	17:00	179.3869	60	114.363	11.96	0.206	0.205
6/25/2008	18:00	170.6488	60	111.069	11.75	0.203	0.202
6/25/2008	19:00	180.0199	60	119.59	11.93	0.215	0.216
6/25/2008	20:00	177.8551	60	116.975	11.89	0.211	0.211
6/25/2008	21:00	166.8469	60	112.577	11.68	0.207	0.207
6/25/2008	22:00	150.6594	60	103.086	11.56	0.192	0.191
6/25/2008	23:00	133.7613	60	90.6046	10.95	0.178	0.177
6/26/2008	0:00	114.7731	60	78.5622	10.48	0.161	0.161
6/26/2008	1:00	98.9524,	60	68.9346	9.567	0.155	0.154
6/26/2008	2:00	97.8147,	60	68.602	9.373	0.157	0.157
6/26/2008	3:00	97.5723,	60	66.184	9.295	0.153	0.153
6/26/2008	4:00	97.9233,	60	67.3835	9.513	0.152	0.153
6/26/2008	5:00	99.7879,	60	66.4478	9.39	0.152	0.152
6/26/2008	6:00	111.8129	60	70.4911	9.728	0.156	0.156
6/26/2008	7:00	143.7193	60	106.944	10.98	0.209	0.209
6/26/2008	8:00	153.8036	60	111.732	11.58	0.207	0.207
6/26/2008	9:00	151.4195	60	108.382	11.62	0.200	0.201
6/26/2008	10:00	169.7982	60	115.46	11.84	0.210	0.210
6/26/2008	11:00	170.2429	60	112.258	11.75	0.205	0.205
6/26/2008	12:00	178.9167	60	120.347	11.93	0.217	0.217
6/26/2008	13:00	180.3481	60	120.978	11.95	0.218	0.217
6/26/2008	14:00	178.8672	60	120.365	11.97	0.216	0.216
6/26/2008	15:00	172.8002	60	119.061	11.84	0.216	0.217
6/26/2008	16:00	169.7765	60	119.649	11.83	0.217	0.218
6/26/2008	17:00	164.5377	60	113.589	11.62	0.210	0.211
6/26/2008	18:00	159.8996	60	107.074	11.42	0.202	0.202
6/26/2008	19:00	147.5258	60	99.211	10.94	0.195	0.196
6/26/2008	20:00	167.8619	60	114.491	11.48	0.214	0.214
6/26/2008	21:00	169.2995	60	111.637	11.4	0.210	0.210

0.185

0.185

6/26/2008	22:00	140.5253	60	97.5021	10.85	0.193	0.192		0.191		0.191
6/26/2008	23:00	109.0981	60	72.1677	10.11	0.153	0.154				
6/27/2008	0:00	101.7725	60	68.1896	9.69	0.151	0.151				
6/27/2008	1:00	99.6089,	60	68.77	9.483	0.156	0.156				
6/27/2008	2:00	100.3649	60	69.8714	9.438	0.159	0.160				
6/27/2008	3:00	100.4162	60	68.5804	9.494	0.155	0.155				
6/27/2008	4:00	102.4821	60	68.0985	9.466	0.155	0.154				
6/27/2008	5:00	102.8331	60	64.7362	9.446	0.147	0.148				
6/27/2008	6:00	107.2092	60	66.9779	9.65	0.149	0.148				
6/27/2008	7:00	146.1096	60	97.7274	10.86	0.193	0.193				
6/27/2008	8:00	166.6419	60	106.112	11.46	0.199	0.198				
6/27/2008	9:00	166.6191	60	104.837	11.32	0.199	0.199				
6/27/2008	10:00	174.373	60	112.498	11.51	0.210	0.210				
6/27/2008	11:00	169.9668	60	108.551	11.47	0.203	0.203				
6/27/2008	12:00	179.319	60	117.661	11.61	0.218	0.218				
6/27/2008	13:00	178.6036	60	110.455	11.27	0.211	0.210				
6/27/2008	14:00	179.933	60	110.84	11.31	0.211	0.211				
6/27/2008	15:00	179.4721	60	119.496	11.32	0.227	0.227				
6/27/2008	16:00	179.0644	60	113.542	11.28	0.216	0.216				
6/27/2008	17:00	178.3761	60	110.593	11.29	0.211	0.210				
6/27/2008	18:00	147.1074	60	92.5664	10.83	0.184	0.184				
6/27/2008	19:00	160.7563	60	104.284	11.13	0.201	0.202				
6/27/2008	20:00	173.1171	60	115.842	11.34	0.220	0.220				
6/27/2008	21:00	173.8184	60	113.311	11.54	0.211	0.212				
6/27/2008	22:00	145.169	60	91.8825	11.09	0.178	0.178				
6/27/2008	23:00	112.6672	60	66.951	9.555	0.151	0.150		0.188		0.188
6/28/2008	0:00	137.2269	60	83.0777	10.02	0.178	0.179				
6/28/2008	1:00	121.7702	60	75.8629	9.625	0.169	0.170				
6/28/2008	2:00	106.2808	60	68.6234	9.229	0.160	0.160				
6/28/2008	3:00	105.0262	60	69.548	9.084	0.165	0.164				
6/28/2008	4:00	105.9683	60	68.5698	9.049	0.163	0.164				
6/28/2008	5:00	104.388	60	67.6404	8.987	0.162	0.161				
6/28/2008	6:00	104.5681	60	71.453	8.961	0.171	0.171				
6/28/2008	7:00	133.5822	60	80.421	9.697	0.178	0.178				
6/28/2008	8:00	153.5788	60	104.962	10.41	0.217	0.217				
6/28/2008	9:00	156.5906	60	104.874	10.57	0.213	0.213				
6/28/2008	10:00	160.6238	60	103.454	10.59	0.210	0.210				
6/28/2008	11:00	151.4719	60	98.4666	10.41	0.203	0.204				
6/28/2008	12:00	168.9293	60	110.968	10.76	0.222	0.221				
6/28/2008	13:00	161.8407	60	104.443	10.68	0.210	0.210				
6/28/2008	14:00	159.4567	60	104.191	10.91	0.205	0.206				
6/28/2008	15:00	142.5834	60	95.5834	10.62	0.193	0.194				
6/28/2008	16:00	156.1785	60	107.485	10.96	0.211	0.210				
6/28/2008	17:00	151.5864	60	94.6189	10.79	0.188	0.188				
6/28/2008	18:00	143.261	60	90.3019	10.54	0.184	0.185				
6/28/2008	19:00	143.2206	60	91.9083	10.51	0.188	0.188				

6/28/2008	20:00	150.5883	60	95.2406	10.47	0.196	0.195		
6/28/2008	21:00	133.6992	60	80.1405	10.1	0.171	0.170		
6/28/2008	22:00	129.8383	60	74.9094	9.958	0.162	0.161	0.186	0.186
6/28/2008	23:00	117.9793	60	66.5052	9.241	0.152	0.153		
6/29/2008	0:00	110.8839	60	66.0385	9.343	0.152	0.153		
6/29/2008	1:00	102.5192	60	64.6487	9.126	0.152	0.153		
6/29/2008	2:00	101.1571	60	64.5711	9.096	0.153	0.153		
6/29/2008	3:00	89.2774,	60	66.9619	9.002	0.160	0.160		
6/29/2008	4:00	82.2514,	60	67.9667	9.266	0.158	0.157		
6/29/2008	5:00	81.8713,	60	67.4576	9.213	0.157	0.158		
6/29/2008	6:00	80.3530,	60	66.8411	9.144	0.155	0.155		
6/29/2008	7:00	72.9723,	60	60.5975	8.952	0.145	0.145		
6/29/2008	8:00	87.4649,	60	65.3984	9.436	0.149	0.150		
6/29/2008	9:00	112.1621	60	66.495	9.968	0.143	0.143		
6/29/2008	10:00	134.5194	60	86.5574	10.78	0.173	0.172		
6/29/2008	11:00	150.0663	60	97.9989	11.14	0.189	0.190		
6/29/2008	12:00	150.4718	60	98.6079	11.09	0.191	0.191		
6/29/2008	13:00	147.5403	60	92.1205	10.69	0.185	0.185		
6/29/2008	14:00	153.2693	60	93.7087	10.87	0.185	0.185		
6/29/2008	15:00	153.2091	60	96.8883	10.98	0.190	0.189		
6/29/2008	16:00	152.8891	60	99.8083	11.16	0.192	0.192		
6/29/2008	17:00	154.8057	60	101.684	11.16	0.196	0.195		
6/29/2008	18:00	151.8211	60	100.778	11.08	0.195	0.195		
6/29/2008	19:00	167.0559	60	111.206	11.27	0.212	0.212		
6/29/2008	20:00	170.078	60	111.089	11.15	0.214	0.213		
6/29/2008	21:00	151.0455	60	98.1648	10.74	0.196	0.197		
6/29/2008	22:00	112.6419	60	71.1028	9.014	0.170	0.170	0.175	0.175
6/29/2008	23:00	104.4849	60	73.5561	8.507	0.186	0.186		
6/30/2008	0:00	102.8012	60	70.854	8.68	0.175	0.175		
6/30/2008	1:00	77.2733,	60	86.4644	8.992	0.207	0.207		
6/30/2008	2:00	73.7222,	60	74.2254	9.648	0.165	0.166		
6/30/2008	3:00	73.0796,	60	72.7913	9.775	0.160	0.160		
6/30/2008	4:00	73.6644,	60	74.7021	9.619	0.167	0.167		
6/30/2008	5:00	72.7028,	60	76.8857	9.411	0.175	0.175		
6/30/2008	6:00	86.4927,	60	70.4126	9.567	0.158	0.158		
6/30/2008	7:00	110.1611	60	71.045	10.29	0.148	0.148		
6/30/2008	8:00	132.3469	60	89.3877	10.59	0.181	0.181		
6/30/2008	9:00	162.0464	60	106.057	11.62	0.196	0.197		
6/30/2008	10:00	188.8222	60	117.595	12.01	0.210	0.211		
6/30/2008	11:00	189.3402	60	120.173	12.09	0.214	0.214		
6/30/2008	12:00	189.1974	60	122.548	12.19	0.216	0.216		
6/30/2008	13:00	189.1265	60	127.33	12.11	0.226	0.226		
6/30/2008	14:00	189.5215	60	127.801	12.07	0.228	0.227		
6/30/2008	15:00	189.7493	60	128.445	11.96	0.231	0.230		
6/30/2008	16:00	188.3799	60	126.648	12.05	0.226	0.225		
6/30/2008	17:00	188.8178	60	125.369	11.95	0.225	0.225		

6/30/2008	18:00	185.3663	60	120.153	11.79	0.219	0.219		
6/30/2008	19:00	152.0878	60	100.683	11.25	0.192	0.192		
6/30/2008	20:00	149.2701	60	101.121	11.21	0.194	0.194		
6/30/2008	21:00	159.2366	60	108.213	11.21	0.207	0.208		
6/30/2008	22:00	113.7718	60	70.1904	9.526	0.158	0.159	0.194	
6/30/2008	23:00	104.926	60	69.1863	8.616	0.173	0.173		0.194
7/1/2008	0:00	106.1814	60	69.1356	8.545	0.174	0.175		
7/1/2008	1:00	106.4945	60	69.0332	8.34	0.178	0.179		
7/1/2008	2:00	108.0971	60	68.3937	8.274	0.178	0.177		
7/1/2008	3:00	109.9258	60	69.8467	8.383	0.179	0.179		
7/1/2008	4:00	105.7083	60	94.058	8.649	0.234	0.235		
7/1/2008	5:00	106.2737	60	65.518	9.064	0.155	0.155		
7/1/2008	6:00	123.0877	60	77.8017	9.665	0.173	0.172		
7/1/2008	7:00	155.4288	60	94.8865	10.79	0.189	0.189		
7/1/2008	8:00	145.3677	60	94.6677	11.05	0.184	0.183		
7/1/2008	9:00	155.1968	60	101.507	11.08	0.197	0.197		
7/1/2008	10:00	167.4611	60	211.152	10.9	0.416	0.197		
7/1/2008	11:00	165.504	60	153.322	10.9	0.302	0.197		
7/1/2008	12:00	165.4498	60	111.599	10.73	0.224	0.224		
7/1/2008	13:00	174.0729	60	109.002	11.18	0.210	0.209		
7/1/2008	14:00	173.2838	60	108.554	11.19	0.208	0.208		
7/1/2008	15:00	173.9546	60	111.346	10.95	0.219	0.218		
7/1/2008	16:00	173.4811	60	112.305	10.81	0.223	0.224		
7/1/2008	17:00	171.1278	60	108.546	10.75	0.217	0.216		
7/1/2008	18:00	154.0633	60	98.8654	10.35	0.205	0.204		
7/1/2008	19:00	162.0565	60	105.789	10.55	0.216	0.215		
7/1/2008	20:00	173.4373	60	109.448	10.89	0.216	0.216		
7/1/2008	21:00	159.1168	60	99.9718	10.61	0.203	0.203		
7/1/2008	22:00	115.7187	60	73.1616	8.623	0.182	0.183	0.197	
7/1/2008	23:00	103.8817	60	66.8209	8.194	0.175	0.175		0.197
7/2/2008	0:00	104.7732	60	64.9245	8.085	0.173	0.172		
7/2/2008	1:00	105.1012	60	64.5375	8.131	0.171	0.171		
7/2/2008	2:00	106.1278	60	63.7931	7.985	0.172	0.171		
7/2/2008	3:00	107.0292	60	64.8457	7.885	0.177	0.176		
7/2/2008	4:00	106.1282	60	59.6873	7.431	0.173	0.173		
7/2/2008	5:00	106.4997	60	59.9444	7.428	0.173	0.174		
7/2/2008	6:00	106.9863	60	69.9384	7.85	0.191	0.157		
7/2/2008	7:00	107.6095	60	70.2071	8.287	0.182	0.182		
7/2/2008	8:00	141.539	60	102.177	10.28	0.214	0.213		
7/2/2008	9:00	156.7403	60	110.615	10.59	0.224	0.224		
7/2/2008	10:00	175.4562	60	114.053	11.33	0.216	0.217		
7/2/2008	11:00	178.5389	60	118.469	11.81	0.216	0.216		
7/2/2008	12:00	179.6885	60	129.54	12.16	0.229	0.228		
7/2/2008	13:00	179.5935	60	126.487	12.4	0.219	0.219		
7/2/2008	14:00	178.8983	60	128.037	12.43	0.221	0.222		
7/2/2008	15:00	179.8629	60	130.948	12.4	0.227	0.227		

7/2/2008 16:00	179.2018	60	132.433	12.38	0.230	0.230
7/2/2008 17:00	179.0101	60	133.479	12.33	0.233	0.233
7/2/2008 18:00	161.9994	60	122.386	11.98	0.219	0.219
7/2/2008 19:00	173.6296	60	126.672	12.09	0.225	0.225
7/2/2008 20:00	153.4371	60	112.079	11.78	0.204	0.204
7/2/2008 21:00	156.4142	60	107.984	11.7	0.198	0.198
7/2/2008 22:00	140.0936	60	94.5562	11.31	0.180	0.180
7/2/2008 23:00	118.1422	60	84.0013	10.43	0.173	0.174
7/3/2008 0:00	106.9819	60	82.0324	10	0.176	0.176
7/3/2008 1:00	84.3433,	60	72.2573	9.261	0.168	0.167
7/3/2008 2:00	83.2246,	60	76.4556	9.049	0.182	0.183
7/3/2008 3:00	85.5130,	60	70.6123	9.114	0.167	0.167
7/3/2008 4:00	73.8678,	60	67.1834	8.911	0.162	0.162
7/3/2008 5:00	74.0704,	60	67.9031	8.949	0.163	0.164
7/3/2008 6:00	77.3795,	60	72.2071	8.907	0.174	0.174
7/3/2008 7:00	115.355	60	85.8306	10.1	0.183	0.183
7/3/2008 8:00	165.6636	60	108.479	11.1	0.210	0.210
7/3/2008 9:00	172.5382	60	113.7	11.37	0.215	0.214
7/3/2008 10:00	173.2383	60	116.348	11.44	0.219	0.219
7/3/2008 11:00	168.9467	60	114.582	11.55	0.213	0.212
7/3/2008 12:00	173.9714	60	113.981	11.41	0.215	0.215
7/3/2008 13:00	171.0986	60	111.438	11.27	0.213	0.212
7/3/2008 14:00	168.128	60	106.778	11.11	0.207	0.207
7/3/2008 15:00	148.9843	60	98.6525	10.81	0.196	0.196
7/3/2008 16:00	147.3412	60	99.9404	10.68	0.201	0.201
7/3/2008 17:00	146.7159	60	98.8869	10.71	0.198	0.199
7/3/2008 18:00	146.3738	60	98.9143	10.66	0.199	0.199
7/3/2008 19:00	120.1741	60	80.0092	9.862	0.174	0.174
7/3/2008 20:00	120.2995	60	76.11	9.825	0.166	0.167
7/3/2008 21:00	121.3819	60	71.7427	9.955	0.155	0.154
7/3/2008 22:00	119.2671	60	67.0939	9.762	0.148	0.147
7/3/2008 23:00	102.0653	60	63.4429	9.466	0.144	0.143

0.201

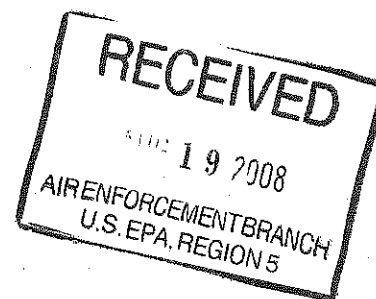
0.202

0.186

0.185

Sammis Unit 1 - 30-Day Rolling Average Calculation

Date	Daily Average	30 Day Rolling Average From Excel	30 Day Rolling Average From ESC
	From ESC		
	Daily Average		
	Tool		
	NOx lb/mbtu	NOx lb/mbtu	NOx lb/mbtu
6/1/2008	0.177		
6/2/2008	0.195		
6/3/2008	0.179		
6/4/2008	0.192		
6/5/2008	0.193		
6/6/2008	0.199		
6/7/2008	0.191		
6/8/2008	0.195		
6/9/2008	0.19		
6/10/2008	0.17		
6/11/2008	0.191		
6/12/2008	0.197		
6/13/2008	0.208		
6/14/2008	0.202		
6/15/2008	0.203		
6/16/2008	0.224		
6/17/2008	0.199		
6/18/2008	0.199		
6/19/2008	0.19		
6/20/2008	0.187		
6/21/2008	0.168		
6/22/2008	0.172		
6/23/2008	0.185		
6/24/2008	0.182		
6/25/2008	0.185		
6/26/2008	0.191		
6/27/2008	0.188	0.191	0.190
6/28/2008	0.186	0.191	0.190
6/29/2008	0.175	0.190	0.190
6/30/2008	0.194	0.190	0.190
7/1/2008	0.197	0.191	0.191
7/2/2008	0.202	0.191	0.191
7/3/2008	0.185	0.191	0.191



COMPLIANCE
TEST REPORT
FOR
FIRSTENERGY CORP.
SAMMIS STATION
BOILER 6 – STACK 3
May 20, 2008

Job # 08-138

Test Report Date: 6-11-08

SUMMARY OF TEST RESULTS

The following presents the results of the emissions tests performed for FirstEnergy Corp. at the Sammis Station, Boiler 6 – Stack 3.

PARTICULATE EMISSIONS

Run #	Description	lb/dscf	lbs/hr	lb/mmBtu
1	Method 5	1.14E-06	89.61	0.016
2	Method 5	5.52E-07	44.86	0.007
3	Method 5	7.76E-07	62.58	0.010
AVG.		8.21E-07	65.68	0.011

The complete results can be found on the computer printouts following.

COMPLIANCE
TEST REPORT
FOR
FIRSTENERGY CORP.
SAMMIS STATION
BOILER 7 – STACK 4
May 13, 2008

Job # 08-133

Test Report Date: 6-03-08

SUMMARY OF TEST RESULTS

The following presents the results of the emissions tests performed for FirstEnergy Corp. at the Sammis Station, Boiler 7 - Stack 4.

PARTICULATE EMISSIONS

Run #	Description	lb/dscf	lbs/hr	lb/mmBtu
1	Method 5	9.11E-07	76.23	0.012
2	Method 5	4.70E-07	39.07	0.006
3	Method 5	3.56E-07	29.78	0.004
AVG.		5.79E-07	48.36	0.007

The complete results can be found on the computer printouts following.

Activity Description		% Comp	Current Start	Current Finish							
					2005	2006	2007	2008	2009	2010	2011
Sammis 1-5											
Combustion Optimization System (COS)											
Procurement		100	05/06/05A	06/06/05A	■ Procurement						
Engineering		100	05/19/05A	06/16/05A	■ Engineering						
Startup & Optimization		100	06/13/05A	11/02/05A	■ Startup & Optimization						
C.O.D. - SA1-5 COS		100		12/01/05A	◆ C.O.D. - SA1-5 COS						
Sammis 1											
Selective Non-Catalytic Reduction (SNCR)											
Engineering		100	04/11/05A	02/01/06A	■ Engineering						
Procurement		100	10/31/05A	04/14/06A	■ Procurement						
Construction		100	01/09/06A	06/16/06A	■ Construction						
Startup & Optimization		100	06/19/06A	06/30/06A	■ Startup & Optimization						
C.O.D. - SA1 SNCR		100		10/31/07A	◆ C.O.D. - SA1 SNCR						
Sammis 3											
Selective Non-Catalytic Reduction (SNCR)											
Engineering		100	02/14/05A	05/29/05A	■ Engineering						
Procurement		100	04/04/05A	09/16/05A	■ Procurement						
Construction		100	08/08/05A	11/06/05A	■ Construction						
Startup & Optimization		100	11/07/05A	01/21/06A	■ Startup & Optimization						
C.O.D. - SA3 SNCR		100		10/31/06A	◆ C.O.D. - SA3 SNCR						
Sammis 4											
Selective Non-Catalytic Reduction (SNCR)											
Engineering		100	04/11/05A	01/01/06A	■ Engineering						
Procurement		100	10/01/05A	03/20/06A	■ Procurement						
Construction		100	01/09/06A	05/19/06A	■ Construction						
Startup & Optimization		100	05/22/06A	06/16/06A	■ Startup & Optimization						
C.O.D. - SA4 SNCR		100		12/31/07A	◆ C.O.D. - SA4 SNCR						
Sammis 1-4											
Wet Flue Gas Desulfurization (WFGD)											
Engineering		92	08/31/05A	08/31/08	■ Engineering						
Procurement		46	06/12/06A	01/03/09	■ Procurement						
Construction		32	11/19/06A	11/12/09	■ Construction						
Startup & Optimization		0	09/09/08	07/30/10	■ Startup & Optimization						
C.O.D. - SA 1-4 WFGD		0		12/31/10*	◆ C.O.D. - SA 1-4 WFGD						
Sammis 5											
Selective Non-Catalytic Reduction (SNCR)											
Engineering		100	04/11/05A	02/01/06A	■ Engineering						
Procurement		100	10/11/05A	03/20/06A	■ Procurement						
Construction		100	01/09/06A	04/28/06A	■ Construction						
Startup & Optimization		100	05/01/06A	05/26/06A	■ Startup & Optimization						
C.O.D. - SA5 SNCR		100		12/31/07A	◆ C.O.D. - SA5 SNCR						
Sammis 5-7											
Wet Flue Gas Desulfurization (WFGD)											
Engineering		91	08/31/05A	12/31/08	■ Engineering						
Procurement		35	07/01/06A	03/31/09	■ Procurement						
Construction		19	11/27/06A	12/31/09	■ Construction						
Startup & Optimization		0	08/01/09	09/30/10	■ Startup & Optimization						
C.O.D. - SA 5-7 WFGD		0		12/31/10*	◆ C.O.D. - SA 5-7 WFGD						
Sammis 6											
Selective Catalytic Reduction (SCR)											
Engineering		100	12/27/04A	08/31/07A	■ Engineering						
Procurement		87	01/20/06A	11/08/08	■ Procurement						
Construction		62	03/20/06A	05/30/09	■ Construction						
Startup & Optimization		0	05/11/09	09/20/09	■ Startup & Optimization						
C.O.D. - SA6 SCR		0		12/31/10*	◆ C.O.D. - SA6 SCR						

Start Date	09/20/04	FirstEnergy Corp	Sheet 1 of 2
Finish Date	12/31/11		
Data Date	07/01/08		
Run Date	08/05/08 13:31		
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		Level 1 Schedule	

Date	Revision	Checked	Approved
02/05/07	Rev. 3		
01/25/08	Rev. 4		
08/05/08	Rev. 5		

Activity Description	% Comp	Current Start	Current Finish							
				2005	2006	2007	2008	2009	2010	2011
Sammis 7										
Selective Catalytic Reduction (SCR)										
Engineering	100	12/27/04A	08/31/07A	Engineering						
Procurement	64	01/09/06A	11/30/09	Procurement						
Construction	25	03/20/06A	03/27/10	Construction						
Startup & Optimization	0	02/26/10	07/30/10	Startup & Optimization						
C.O.D. - SA7 SCR	0		12/31/11*	C.O.D. - SA7 SCR						
Mansfield 1										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	100	02/21/05A	08/31/05A	Engineering						
Procurement	100	02/28/05A	10/09/05A	Procurement						
Construction	100	09/24/05A	12/03/05A	Construction						
C.O.D. MN1 - WFGD	100		12/31/05A	C.O.D. MN1 - WFGD						
Testing & Optimization	100	12/16/05A	06/23/06A	Testing & Optimization						
Mansfield 2										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	100	07/04/05A	04/12/06A	Engineering						
Procurement	100	09/24/05A	09/05/06A	Procurement						
Construction	100	06/01/06A	11/03/06A	Construction						
C.O.D. - MN2 WFGD	100		12/31/06A	C.O.D. - MN2 WFGD						
Testing & Optimization	100	01/01/07A	06/20/07A	Testing & Optimization						
Mansfield 3										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	100	03/27/06A	04/28/07A	Engineering						
Procurement	100	07/27/06A	08/31/07A	Procurement						
C.O.D. - MN3 WFGD	100		10/31/07A	C.O.D. - MN3 WFGD						
Outage	100	09/01/07A	11/03/07A	Outage						
Construction	100	09/01/07A	11/03/07A	Construction						
Testing & Optimization	100	11/04/07A	03/24/08A	Testing & Optimization						
Burger 4										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	12/01/06A	02/29/08A	Engineering						
Procurement	100	03/14/07A	03/31/08A	Procurement						
Construction	95	09/29/07A	09/26/08	Construction						
Startup & Optimization	0	11/24/08	12/23/08	Startup & Optimization						
Burger 5										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	12/01/06A	02/29/08A	Engineering						
Procurement	100	03/14/07A	03/31/08A	Procurement						
Construction	95	09/29/07A	09/26/08	Construction						
Startup & Optimization	0	11/24/08	12/23/08	Startup & Optimization						
C.O.D. - BU4 & BU5	0		12/31/08*	C.O.D. - BU4 & BU5						
Eastlake 5										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	08/01/05A	10/13/06A	Engineering						
Procurement	100	03/19/06A	12/20/06A	Procurement						
C.O.D. - EL5 SNCR	100		12/31/06A	C.O.D. - EL5 SNCR						
Construction	100	09/05/06A	02/24/07A	Construction						
Outage	100	02/26/07A	03/12/07A	Outage						
Startup & Optimization	100	02/12/07A	03/17/07A	Startup & Optimization						

Sammis Boiler 1 30 day rolling averages for NOxlb/mmmbtu

Certification documents submitted on 4/17/2008

Date	(LB/MMBTU)
5/28/2008	0.173
5/29/2008	0.173
5/30/2008	0.172
5/31/2008	0.172
6/1/2008	0.173
6/2/2008	0.174
6/3/2008	0.174
6/4/2008	0.175
6/5/2008	0.175
6/6/2008	0.175
6/7/2008	0.176
6/8/2008	0.177
6/9/2008	0.178
6/10/2008	0.178
6/11/2008	0.179
6/12/2008	0.180
6/13/2008	0.181
6/14/2008	0.182
6/15/2008	0.183
6/16/2008	0.185
6/17/2008	0.186
6/18/2008	0.187
6/19/2008	0.187
6/20/2008	0.187
6/21/2008	0.187
6/22/2008	0.187
6/23/2008	0.188
6/24/2008	0.189
6/25/2008	0.189
6/26/2008	0.189
6/27/2008	0.190
6/28/2008	0.190
6/29/2008	0.190
6/30/2008	0.190

Sammis Boiler 2 30 day rolling averages for NOxlb/mmbtu

Date	(LB/MMBTU)
1/1/2008	0.200
1/2/2008	0.200
1/3/2008	0.201
1/4/2008	0.201
1/5/2008	0.201
1/6/2008	0.201
1/7/2008	0.201
1/8/2008	0.201
1/9/2008	0.200
1/10/2008	0.200
1/11/2008	0.200
1/12/2008	0.200
1/13/2008	0.198
1/14/2008	0.197
1/15/2008	0.196
1/16/2008	0.196
1/17/2008	0.196
1/18/2008	0.196
1/19/2008	0.197
1/20/2008	0.197
1/21/2008	0.198
1/22/2008	0.199
1/23/2008	0.199
1/24/2008	0.199
1/25/2008	0.199
1/26/2008	0.199
1/27/2008	0.198
1/28/2008	0.199
1/29/2008	0.199
1/30/2008	0.200
1/31/2008	0.200
2/1/2008	0.199
2/2/2008	0.198
2/3/2008	0.198
2/4/2008	0.197
2/5/2008	0.198
2/6/2008	0.198
2/7/2008	0.199
2/8/2008	0.199
2/9/2008	0.199
2/10/2008	0.199
2/11/2008	0.200
2/12/2008	0.202
2/13/2008	0.204
2/14/2008	0.205
2/15/2008	0.205

2/16/2008	0.205
2/17/2008	0.204
2/18/2008	0.204
2/19/2008	0.203
2/20/2008	0.202
2/21/2008	0.202
2/22/2008	0.201
2/23/2008	0.201
2/24/2008	0.201
2/25/2008	0.201
2/26/2008	0.201
2/27/2008	0.201
2/28/2008	0.202
2/29/2008	0.202
3/1/2008	0.201
3/2/2008	0.203
3/3/2008	0.203
3/4/2008	0.204
3/5/2008	0.204
3/6/2008	0.204
3/7/2008	0.204
3/8/2008	0.204
3/9/2008	0.204
3/10/2008	0.204
3/11/2008	0.204
3/12/2008	0.203
3/13/2008	0.202
3/14/2008	0.201
3/15/2008	0.200
3/16/2008	0.201
3/17/2008	0.201
3/18/2008	0.201
3/19/2008	0.201
3/20/2008	0.201
3/21/2008	0.201
3/22/2008	0.201
3/23/2008	0.200
3/24/2008	0.200
3/25/2008	0.200
3/26/2008	0.200
3/27/2008	0.200
3/28/2008	0.199
3/29/2008	0.199
3/30/2008	0.198
3/31/2008	0.198
4/1/2008	0.196
4/2/2008	0.196
4/3/2008	0.196
4/4/2008	0.196
4/5/2008	0.196
4/6/2008	0.195
4/7/2008	0.194

4/8/2008	0.194
4/9/2008	0.194
4/10/2008	0.194
4/11/2008	0.194
4/12/2008	0.194
4/13/2008	0.194
4/14/2008	0.194
4/15/2008	0.193
4/16/2008	0.193
4/17/2008	0.192
4/18/2008	0.193
4/19/2008	0.192
4/20/2008	0.191
4/21/2008	0.192
4/22/2008	0.192
4/23/2008	0.192
4/24/2008	0.192
4/25/2008	0.192
4/26/2008	0.191
4/27/2008	0.190
4/28/2008	0.190
4/29/2008	0.190
4/30/2008	0.190
5/1/2008	0.189
5/2/2008	0.189
5/3/2008	0.188
5/4/2008	0.187
5/5/2008	0.187
5/6/2008	0.188
5/7/2008	0.188
5/8/2008	0.188
5/9/2008	0.187
5/10/2008	0.187
5/11/2008	0.186
5/12/2008	0.186
5/13/2008	0.186
5/14/2008	0.186
5/15/2008	0.186
5/16/2008	0.185
5/17/2008	0.185
5/18/2008	0.184
5/19/2008	0.184
5/20/2008	0.184
5/21/2008	0.184
5/22/2008	0.184
5/23/2008	0.183
5/24/2008	0.182
5/25/2008	0.182
5/26/2008	0.182
5/27/2008	0.182
5/28/2008	0.182
5/29/2008	0.182

5/30/2008	0.182
5/31/2008	0.182
6/1/2008	0.182
6/2/2008	0.183
6/3/2008	0.183
6/4/2008	0.184
6/5/2008	0.184
6/6/2008	0.184
6/7/2008	0.185
6/8/2008	0.186
6/9/2008	0.186
6/10/2008	0.187
6/11/2008	0.187
6/12/2008	0.188
6/13/2008	0.189
6/14/2008	0.189
6/15/2008	0.189
6/16/2008	0.190
6/17/2008	0.190
6/18/2008	0.190
6/19/2008	0.190
6/20/2008	0.191
6/21/2008	0.190
6/22/2008	0.190
6/23/2008	0.190
6/24/2008	0.190
6/25/2008	0.190
6/26/2008	0.191
6/27/2008	0.191
6/28/2008	0.191
6/29/2008	0.191
6/30/2008	0.191

Sammis Boiler 3 30 day rolling averages for NOxlb/mmbtu

Date	(LB/MMBTU)
1/1/2008	0.224
1/2/2008	0.225
1/3/2008	0.225
1/4/2008	0.224
1/5/2008	0.224
1/6/2008	0.224
1/7/2008	0.224
1/8/2008	0.224
1/9/2008	0.223
1/10/2008	0.223
1/11/2008	0.223
1/12/2008	0.222
1/13/2008	0.220
1/14/2008	0.219
1/15/2008	0.218
1/16/2008	0.218
1/17/2008	0.217
1/18/2008	0.218
1/19/2008	0.218
1/20/2008	0.217
1/21/2008	0.218
1/22/2008	0.219
1/23/2008	0.219
1/24/2008	0.221
1/25/2008	0.222
1/26/2008	0.222
1/27/2008	0.222
1/28/2008	0.222
1/29/2008	0.223
1/30/2008	0.223
1/31/2008	0.222
2/1/2008	0.222
2/2/2008	0.222
2/3/2008	0.221
2/4/2008	0.221
2/5/2008	0.223
2/6/2008	0.224
2/7/2008	0.225
2/8/2008	0.226
2/9/2008	0.226
2/10/2008	0.226
2/11/2008	0.227
2/12/2008	0.229
2/13/2008	0.229
2/14/2008	0.229
2/15/2008	0.228
2/16/2008	0.227

2/17/2008	0.226
2/18/2008	0.226
2/19/2008	0.226
2/20/2008	0.226
2/21/2008	0.225
2/22/2008	0.225
2/23/2008	0.224
2/24/2008	0.224
2/25/2008	0.222
2/26/2008	0.222
2/27/2008	0.221
2/28/2008	0.220
2/29/2008	0.219
3/1/2008	0.219
3/2/2008	0.218
3/3/2008	0.218
3/4/2008	0.217
3/5/2008	0.217
3/6/2008	0.216
3/7/2008	0.214
3/8/2008	0.213
3/9/2008	0.213
3/10/2008	0.213
3/11/2008	0.212
3/12/2008	0.211
3/13/2008	0.209
3/14/2008	0.208
3/15/2008	0.207
3/16/2008	0.207
3/17/2008	0.207
3/18/2008	0.206
3/19/2008	0.206
3/20/2008	0.206
3/21/2008	0.205
3/22/2008	0.203
3/23/2008	0.202
3/24/2008	0.202
3/25/2008	0.202
3/26/2008	0.202
3/27/2008	0.202
3/28/2008	0.202
3/29/2008	0.201
3/30/2008	0.200
3/31/2008	0.200
4/1/2008	0.201
4/2/2008	0.200
4/3/2008	0.201
4/4/2008	0.200
4/5/2008	0.200
4/6/2008	0.199
4/7/2008	0.199
4/8/2008	0.199

4/9/2008	0.198
4/10/2008	0.198
4/11/2008	0.199
4/12/2008	0.199
4/13/2008	0.200
4/14/2008	0.200
4/15/2008	0.200
4/16/2008	0.200
4/17/2008	0.201
4/18/2008	0.200
4/19/2008	0.199
4/20/2008	0.199
4/21/2008	0.199
4/22/2008	0.201
4/23/2008	0.200
4/24/2008	0.199
4/25/2008	0.200
4/26/2008	0.199
4/27/2008	0.199
4/28/2008	0.199
4/29/2008	0.199
4/30/2008	0.199
5/1/2008	0.199
5/2/2008	0.198
5/3/2008	0.197
5/4/2008	0.196
5/5/2008	0.196
5/6/2008	0.197
5/7/2008	0.196
5/8/2008	0.196
5/9/2008	0.196
5/10/2008	0.197
5/11/2008	0.195
5/12/2008	0.196
5/13/2008	0.195
5/14/2008	0.195
5/15/2008	0.196
5/16/2008	0.196
5/17/2008	0.195
5/18/2008	0.195
5/19/2008	0.195
5/20/2008	0.196
5/21/2008	0.197
5/22/2008	0.197
5/23/2008	0.196
5/24/2008	0.196
5/25/2008	UNIT WAS
5/26/2008	0.198
5/27/2008	0.199
5/28/2008	0.199
5/29/2008	0.199
5/30/2008	0.199

5/31/2008	0.199
6/1/2008	0.199
6/2/2008	UNIT WAS
6/3/2008	UNIT WAS
6/4/2008	UNIT WAS
6/5/2008	0.203
6/6/2008	0.204
6/7/2008	0.206
6/8/2008	0.206
6/9/2008	0.206
6/10/2008	0.206
6/11/2008	0.206
6/12/2008	0.207
6/13/2008	0.206
6/14/2008	0.207
6/15/2008	0.207
6/16/2008	0.207
6/17/2008	0.208
6/18/2008	0.207
6/19/2008	0.207
6/20/2008	0.208
6/21/2008	0.209
6/22/2008	0.208
6/23/2008	0.208
6/24/2008	0.207
6/25/2008	0.207
6/26/2008	0.208
6/27/2008	0.208
6/28/2008	0.206
6/29/2008	0.205
6/30/2008	0.206

Activity Description	% Comp	Current Start	Current Finish	2005	2006	2007	2008	2009	2010	2011
Sammis 1-5										
Combustion Optimization System (COS)										
Procurement	100	05/06/05A	06/06/05A	▼ Procurement						
Engineering	100	05/19/05A	06/16/05A	▼ Engineering						
Startup & Optimization	100	06/13/05A	11/02/05A	▼ Startup & Optimization						
C.O.D. - SA1-5 COS	100		12/01/05A	◆ C.O.D. - SA1-5 COS						
Sammis 1										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	04/11/05A	02/01/06A	▼ Engineering						
Procurement	100	10/31/05A	04/14/06A	▼ Procurement						
Construction	100	01/09/06A	06/16/06A	▼ Construction						
Startup & Optimization	100	06/19/06A	06/30/06A	▼ Startup & Optimization						
C.O.D. - SA1 SNCR	0		10/31/07*	◆ C.O.D. - SA1 SNCR						
Sammis 3										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	02/14/05A	05/29/05A	▼ Engineering						
Procurement	100	04/04/05A	09/16/05A	▼ Procurement						
Construction	100	06/08/05A	11/06/05A	▼ Construction						
Startup & Optimization	100	11/07/05A	01/21/06A	▼ Startup & Optimization						
C.O.D. - SA3 SNCR	100		10/31/06A	◆ C.O.D. - SA3 SNCR						
Sammis 4										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	04/11/05A	01/01/06A	▼ Engineering						
Procurement	100	10/01/05A	03/20/06A	▼ Procurement						
Construction	100	01/09/06A	05/19/06A	▼ Construction						
Startup & Optimization	100	05/22/06A	06/16/06A	▼ Startup & Optimization						
C.O.D. - SA4 SNCR	0		12/31/07*	◆ C.O.D. - SA4 SNCR						
Sammis 1-4										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	45	08/31/05A	08/31/08	▼ Engineering						
Procurement	22	06/12/06A	01/03/09	▼ Procurement						
Construction	4	11/19/06A	11/12/09	▼ Construction						
Startup & Optimization	0	09/09/08	07/30/10	▼ Startup & Optimization						
C.O.D. - SA 1-4 WFGD	0		12/31/10*	◆ C.O.D. - SA 1-4 WFGD						
Sammis 5										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	04/11/05A	02/01/06A	▼ Engineering						
Procurement	100	10/11/05A	03/20/06A	▼ Procurement						
Construction	100	01/09/06A	04/28/06A	▼ Construction						
Startup & Optimization	100	05/01/06A	05/26/06A	▼ Startup & Optimization						
C.O.D. - SA5 SNCR	0		12/31/07*	◆ C.O.D. - SA5 SNCR						
Sammis 5-7										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	40	08/31/05A	12/31/08	▼ Engineering						
Procurement	18	07/01/06A	03/31/09	▼ Procurement						
Construction	3	11/27/06A	12/31/09	▼ Construction						
Startup & Optimization	0	08/01/09	09/30/10	▼ Startup & Optimization						
C.O.D. - SA 5-7 WFGD	0		12/31/10*	◆ C.O.D. - SA 5-7 WFGD						
Sammis 6										
Selective Catalytic Reduction (SCR)										
Engineering	75	12/27/04A	08/31/07	▼ Engineering						
Procurement	34	01/20/06A	11/08/08	▼ Procurement						
Construction	25	03/20/06A	05/30/09	▼ Construction						
Start Date	09/20/04	FirstEnergy Corp Consent Decree Level 1 Schedule		Sheet 1 of 2						
Finish Date	12/30/12			Date	Revision	checked	Approved			
Data Date	01/01/07			02/01/07	Rev. 1					
Run Date	02/05/07 20:06			02/10/07	Rev. 2					
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Activity Description	% Comp	Current Start	Current Finish							
				2005	2006	2007	2008	2009	2010	2011
Startup & Optimization	0	05/11/09	09/20/09					Startup & Optimization		▽
C.O.D. - SA6 SCR	0		12/31/10*						C.O.D. - SA6 SCR	◇
Sammis 7										
Selective Catalytic Reduction (SCR)										
Engineering	75	12/27/04A	08/31/07				Engineering			▽
Procurement	25	01/09/06A	11/30/09					Procurement		▽
Construction	20	03/20/06A	03/27/10						Construction	▽
Startup & Optimization	0	02/26/10	07/30/10					Startup & Optimization		▽
C.O.D. - SA7 SCR	0		12/31/11*						C.O.D. - SA7 SCR	◇
Mansfield 1										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	100	02/21/05A	08/31/05A				Engineering			▽
Procurement	100	02/28/05A	10/09/05A				Procurement			▽
Construction	100	09/24/05A	12/03/05A				Construction			▽
C.O.D. MN1 - WFGD	100		12/31/05A						C.O.D. MN1 - WFGD	◇
Testing & Optimization	100	12/16/05A	08/23/06A				Testing & Optimization			▽
Mansfield 2										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	100	07/04/05A	04/12/06A				Engineering			▽
Procurement	100	09/24/05A	09/05/06A				Procurement			▽
Construction	100	08/01/06A	11/03/06A				Construction			▽
C.O.D. - MN2 WFGD	100		12/31/06A						C.O.D. - MN2 WFGD	◇
Testing & Optimization	0	01/01/07	06/09/07					Testing & Optimization		▽
Mansfield 3										
Wet Flue Gas Desulfurization (WFGD)										
Engineering	70	03/27/06A	04/28/07				Engineering			▽
Procurement	39	07/27/06A	08/31/07				Procurement			▽
C.O.D. - MN3 WFGD	0		10/31/07*						C.O.D. - MN3 WFGD	◇
Outage	0	09/01/07	11/10/07*						Outage	▽
Construction	0	09/01/07	11/10/07						Construction	▽
Testing & Optimization	0	11/11/07	03/31/08						Testing & Optimization	▽
Burger 4										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	13	12/01/06A	07/31/07				Engineering			▽
Procurement	0	03/01/07	03/31/08				Procurement			▽
Construction	0	10/01/07	05/17/08				Construction			▽
Startup & Optimization	0	06/01/08	06/30/08						Startup & Optimization	▽
Burger 5										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	13	12/01/06A	07/31/07				Engineering			▽
Procurement	0	03/01/07	03/31/08				Procurement			▽
Construction	0	10/01/07	05/17/08				Construction			▽
Startup & Optimization	0	06/17/08	07/16/08						Startup & Optimization	▽
C.O.D. - BU4 & BU5	0		12/31/08*						C.O.D. - BU4 & BU5	◇
Eastlake 5										
Selective Non-Catalytic Reduction (SNCR)										
Engineering	100	08/01/05A	10/13/06A				Engineering			▽
Procurement	100	03/19/06A	12/20/06A				Procurement			▽
C.O.D. - EL5 SNCR	100		12/31/06A						C.O.D. - EL5 SNCR	◇
Construction	67	09/05/06A	02/27/07				Construction			▽
Outage	0	02/26/07	03/12/07*						Outage	▽
Startup & Optimization	0	02/16/07	03/17/07						Startup & Optimization	▽